



# ACADEMIC BULLETIN

## 2019-2024

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# BUGEMA UNIVERSITY

## Kampala Uganda

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A Chartered Seventh Day Adventist Institution of Higher Learning  
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**GENERAL INFORMATION****BUGEMA UNIVERSITY ACADEMIC CALENDAR 2019-2020**

First Semester	August 12 - December 13, 2019
Christmas Break	December 15 - 2019 - January 6, 2020
Second Semester	January 13 - May 15, 2020
Summer School	May 18 - July 15, 2020

**First Semester**

August	8-9	2019	Thu - Fri: Faculty & Staff Orientation
August	11-12	2019	Sun-Mon: Students Arrival
August	12-16	2019	Mon-Fri: Registration
August	19	2019	Mon: Classes begin/Late Registration
August	20	2019	Tue: Orientation of New Students
August	28	2019	Wed: Last Day for late Registration
September	20	2019	Fri: Last Day for ADD/DROP
September	25	2019	Wed: BU Research Forum
September	30	2019	Mon: End of Clearance for Graduation
October	7-11,	2019	Mon-Fri: Mid Semester Exams
October	9,	2019	Wed: Independence Day
October	15,	2019	Tue: Food Fair and Cultural Emphasis
October	27,	2019	Sun: Counselling Day
November	1-3,	2019	Fri-Sun: Graduation
November	10 - 16,	2019	Sun-Sat: Week of Spiritual Emphasis
November	15,	2019	Fri: Last Day Special Registration
November	18 - 22,	2019	Mon-Fri: Exam Clearance and Pre-Registration for 2 <sup>nd</sup> Sem.
November	25 - Dec. 13,	2019	Mon-Fri: Final Examinations
December	16-20,	2019	Mon-Fri: Lecturers' Marking Days
December	23,	2019	Mon: GRADES DUE
December	15,	2019	Jan 13, 2020 RECESS

**Second Semester**

January	12-13,	2020	Sun-Mon: Students Arrival
January	13-17,	2020	Mon - Fri: Registration
January	20,	2020	Mon: Classes Begin/ Late Registration
January	21,	2020	Tue: Orientation of New Students
January	26,	2020	Sun: NRM Anniversary
January	27,	2020	Mon: Last day for Late Registration
February	3-7,	2020	Mon: - Fri: Grade Auditing
February	10,	2020	Mon: Last Day to ADD/DROP
February	17-19,	2020	Mon-Wed: Research Conference
March	3,	2020	Tue: Honors Convocation
March	3,	2020	Tue: Senior Class Formation
March	5,	2020	Thu: Freshers' ball
March	16-20,	2020	Mon-Fri: Mid-Semester Exams
March	22-28,	2020	Sun-Sat: Environ. Stewardship Week
March	26-27,	2020	Thu-Fri: Sports Day
March	31,	2020	Tue: BUSA Election Day
April	5,	2020	Sun: Counselling Day
April	7,	2020	Tue: Senior Class Presentation
April	12-18,	2020	Sun-Sat: Week of Spiritual Emphasis



April	17-20,	2020	Fri-Mon: Easter Weekend
April	21-28,	2020	Tue-Wed: Exam Clearance and Pre-Registration for Summer
April	28,	2020	Tue: Last day Special Registration
April	29-May 15,	2020	Wed-Fri: Final Examinations
May	15-Aug 7,	2020	Fri-Fri: SUMMER & RECESS
May	18-22,	2020	Mon-Fri: Lecturers Marking Days
May	29,	2020	Fri: GRADES DUE

### Summer School

May	18-June 12,	2020	Mon-Fri: Taught Summer
May	18,	2020	Mon: Registration
May	19,	2020	Tue: Classes Begin
June	3,	2020	Wed: Martyrs Day
June	9,	2020	Tue: Heroes Day
June	11-12,	2020	Thu-Fri: Exams Taught Summer
June	15,	2020	Mon: Last Day Practicum Registration
June	26,	2020	Fri. GRADES DUE (SUMMER)

## Academic Calendar for In-Service 2019-2020

### a) Teachers and other majors

The actual dates are dependent on the government timetable for schools; therefore, are approximate only.

August	25,	2019	Sun: In-Service Begins
September	13,	2019	Fri: In-Service Ends
December	8,	2019	Sun: In-Service Begins
December	27,	2019	Fri: In-Service Ends
January	5,	2020	Sun: In-Service Begins
January	30,	2020	Thu: In-Service Ends
May	3,	2020	Sun: In-Service Begins
May	29,	2020	Fri: In-Service Ends

### b) In-service Pastors

November	1,	2019	Fri: 1 <sup>st</sup> Session Begins
December	18,	2019	Wed: 1 <sup>st</sup> Session Ends
March	30,	2020	Mon: 2 <sup>nd</sup> Session Begins
June	12,	2020	Fri: 2 <sup>nd</sup> Session Ends

**BUGEMA UNIVERSITY ACADEMIC CALENDAR 2020-2021**

First Semester	August 10-December 14,	2020
Christmas Break	December 14-January 8,	2021
Second Semester	January 11-May 14,	2021
Summer School	May 17-July 15,	2021

**First Semester**

August	6-7,	2020	Thu-Fri: Faculty & Staff Orientation
August	9-10,	2020	Sun-Mon: Students Arrival
August	10-14,	2020	Mon-Fri: Registration
August	17,	2020	Mon: Classes begin/Late Registration
August	18,	2020	Tue: Orientation of New Students
August	26,	2020	Wed: Last Day for late Registration
September	18,	2020	Fri: Last Day for ADD/DROP
September	23,	2020	Wed: BU Research Forum
September	30,	2020	Wed: End of Clearance for Graduation
October	5-8,	2020	Mon-Thu: Mid semester Exams
October	9,	2020	Fri: Independence Day
October	13,	2020	Tue: Food Fair and Cultural Emphasis
October	25,	2020	Sun: Counselling Day
November	6-8,	2020	Fri- Sun: Graduation
November	15-21,	2020	Sun-Sat: Week of Spiritual Emphasis
November	20,	2020	Fri: Last Day Special Registration
November	16-20,	2020	Mon-Fri: Exam Clearance and Pre-Registration for 2 <sup>nd</sup> Sem.
November	25-Dec. 11,	2020	Wed-Fri: Final Examinations
December	14-18,	2020	Mon-Fri: Lecturers' Marking Days
December	23,	2020	Wed: GRADES DUE
December	15,	2020	Jan 8, 2021 RECESS

**Second Semester**

January	10-11,	2021	Sun-Mon: Students Arrival
January	11-15,	2021	Mon - Fri: Registration
January	18,	2021	Mon: Classes Begin/Late Registration
January	19,	2021	Tue: Orientation of New Students
January	26,	2021	Tue: NRM Anniversary
February	1,	2021	Mon: Last day for Late Registration
February	8,	2021	Mon: Last Day to ADD/DROP
February	15-17,	2021	Mon-Wed: Research Conference
February	22-26,	2021	Mon-Fri: Grade Auditing
March	2,	2021	Tue: Honors Convocation
March	2,	2021	Tue: Senior Class Formation
March	4,	2021	Thu: Freshers' Ball
March	15-19,	2021	Mon-Fri: Mid - Semester Exams
March	21-27,	2021	Sun-Sat: Environ. Stewardship Week
March	25-26,	2021	Thu-Fri: Sports' Day
March	30,	2021	Tue: BUSA Election Day
April	2-5,	2021	Fri-Mon: Easter Weekend
April	4,	2021	Sun: Counselling Day
April	6,	2021	Tue: Senior Class Presentation
April	11-17,	2021	Sun-Sat: Week of Spiritual Emphasis
April	19-28,	2021	Mon-Wed: Exam Clearance and

April	27,	2021	Pre-Registration for Summer
April	28-May 14,	2021	Wed: Last day Special Registration
May	14-Aug 6,	2021	Wed-Fri: Final Examinations
May	17-21,	2021	Fri-Fri: SUMMER & RECESS
May	28,	2021	Mon-Fri: Lecturers Marking Days
			Fri: GRADES DUE
<b>Summer School</b>			
May	17-June 11,	2021	Mon-Fri: Taught Summer
May	17,	2021	Mon: Registration
May	18,	2021	Tue: Classes Begin
June	3,	2021	Thu: Martyrs Day
June	9,	2021	Wed: Heroes Day
June	10-11,	2021	Wed-Fri: Exams, Taught Summer
June	18,	2021	Fri: Last Day for Practicum Registration
June	25,	2021	Fri. GRADES DUE (SUMMER)

### Academic Calendar for In-Service 2020 – 2021

#### a) Teachers and other majors

The actual dates are dependent on the government timetable for schools; therefore, these are approximate only.

August	23,	2020	Sun: In-Service Begins
September	11,	2020	Fri: In-Service Ends
December	6,	2020	Sun: In-Service Begins
December	24,	2020	Thu: In-Service Ends
January	3,	2021	Sun: In-Service Begins
January	28,	2021	Thu: In-Service Ends
May	2,	2020	Sun: In-Service Begins
May	28,	2020	Fri: In-Service Ends

#### b) In-service Pastors

October	30,	2020	Fri: 1 <sup>st</sup> Session Begins
December	16,	2020	Wed: 1 <sup>st</sup> Session Ends
March	29,	2021	Mon: 2 <sup>nd</sup> Session Begins
June	11,	2021	Fri: 2 <sup>nd</sup> Session Ends

**BUGEMA UNIVERSITY ACADEMIC CALENDAR 2021 – 2022**

First Semester	August 9-December 13,	2021
Christmas Break	December 14-January 7,	2022
Second Semester	January 9-May 13,	2022
Summer School	May 16-July 15,	2022

**First Semester**

August	5-6,	2021	Thu-Fri: Faculty & Staff Orientation
August	8-9,	2021	Sun-Mon: Students Arrival
August	9-13,	2021	Mon-Fri: Registration
August	16,	2021	Mon: Classes begin/Late Registration
August	17,	2021	Tue: Orientation of New Students
August	25,	2021	Wed: Last Day for late Registration
September	17,	2021	Fri: Last Day for ADD/DROP
September	22,	2021	Wed: BU Research Forum
September	30,	2021	Thu: End of Clearance for Graduation
October	4-8,	2021	Mon-Fri: Mid semester Exams
October	9,	2021	Sat: Independence Day
October	12,	2021	Tue: Food Fair and Cultural Emphasis
October	31,	2021	Sun: Counselling Day
November	5-7,	2021	Fri- Sun: Graduation
November	14-20,	2021	Sun – Sat: Week of Spiritual Emphasis
November	19,	2021	Fri: Last Day Special Registration
November	15-19,	2021	Mon-Fri: Exam Clearance and Pre-Registration for 2 <sup>nd</sup> Sem.
November	24-Dec. 10,	2021	Wed-Fri: Final Examinations
December	13-17,	2021	Mon-Fri: Lecturers' Marking Days
December	22,	2021	Wed: GRADES DUE
December	10,	2021 – Jan 7, 2022	Mon-Fri: RECESS

**Second Semester**

January	9-10,	2022	Sun-Mon: Students Arrival
January	10 – 14,	2022	Mon - Fri: Registration
January	17,	2022	Mon: Classes Begin/Late Registration
January	18,	2022	Tue: Orientation of New Students
January	26,	2022	Wed: NRM Anniversary
January	31,	2022	Mon: Last day for Late Registration
February	7,	2022	Mon: Last Day to ADD/DROP
February	14-16,	2022	Mon-Wed: Research Conference
February	21-25,	2022	Mon-Fri: Grade Auditing
March	3,	2022	Thu: Freshers' Ball
March	8,	2022	Tue: Honors Convocation
March	8,	2022	Tue: Senior Class Formation
March	14-18,	2022	Mon-Fri: Mid-Semester Exams
March	20-26,	2022	Sun-Sat: Enviro. Stewardship week
March	24-25,	2022	Thu-Fri: Sports Day
March	29,	2022	Tue: BUSA Election Day
April	3,	2022	Sun: Counselling Day
April	5,	2022	Tue: Senior Class Presentation
April	10- 16,	2022	Sun-Sat: Week of Spiritual Emphasis
April	15-18,	2022	Fri-Mon: Easter Weekend

April	19-22,	2022	Tue-Fri: Exam Clearance and Pre-Registration for Summer
April	26,	2022	Tue: Last day Special Registration
April	27 – May 13,	2022	Wed-Fri: Final Examinations
May	13 – Aug 5,	2022	Fri-Fri: SUMMER & RECESS
May	16– 20,	2022	Mon-Fri: Lecturers Marking Days
May	27,	2022	Fri: GRADES DUE

**Summer School**

May	16-June 10,	2022	Mon-Fri: Taught Summer
May	16,	2022	Mon: Registration
May	17,	2022	Tue: Classes Begin
June	3,	2022	Fri: Martyrs Day
June	9,	2022	Thu: Heroes Day
June	8-10,	2022	Wed-Fri: Exams Taught Summer
June	17,	2022	Fri: Final Day Practicum Registration
June	24,	2022	Fri. GRADES DUE (SUMMER)

**Academic Calendar for In-Service 2021 – 2022**

**a) Teachers and other majors**

The actual dates are dependent on the government timetable for schools; therefore, these are approximate only.

August	22,	2021	Sun: In-Service Begins
September	10,	2021	Fri: In-Service Ends
December	5,	2021	Sun: In-Service Begins
December	23,	2021	Thu: In-Service Ends
January	3,	2022	Mon: In-Service Begins
January	27,	2022	Thu: In-Service Ends
May	2,	2022	Mon: In-Service Begins
May	27,	2022	Fri: In-Service Ends

**b) In-service Pastors**

October	29,	2021	Fri: 1 <sup>st</sup> Session Begins
December	15,	2021	Wed: 1 <sup>st</sup> Session Ends
March	28,	2022	Mon: 2 <sup>nd</sup> Session Begins
June	10,	2022	Fri: 2 <sup>nd</sup> Session Ends

**BUGEMA UNIVERSITY ACADEMIC CALENDAR 2022 – 2023**

First Semester	August 8-December 12,	2022
Christmas Break	December 13-January 7,	2023
Second Semester	January 6-May 12,	2023
Summer School	May 15-July 14,	2023

**First Semester**

August	4-5,	2022	Thu-Fri: Faculty & Staff Orientation
August	7-8,	2022	Sun-Mon: Students Arrival
August	8-12,	2022	Mon-Fri: Registration
August	15,	2022	Mon: Classes begin/Late Registration
August	16,	2022	Tue: Orientation of New Students
August	24,	2022	Wed: Last Day for late Registration
September	16,	2022	Fri: Last Day for ADD/DROP
September	21,	2022	Wed: BU Research Forum
September	30,	2022	Fri: End of Clearance for Graduation
October	3-7,	2022	Mon-Fri: Mid semester Exams
October	9,	2022	Sun: Independence Day
October	11,	2022	Tue: Food Fair and Cultural Emphasis
October	30,	2022	Sun: Counselling Day
November	4-6,	2022	Fri- Sun: Graduation
November	13- 19,	2022	Sun – Sat: Week of Spiritual Emphasis
November	14 – 18,	2022	Mon-Fri: Exam Clearance and Pre-Registration for 2 <sup>nd</sup> Sem.
November	22,	2022	Tue: Last Day Special Registration
November	23 – Dec. 9,	2022	Wed-Fri: Final Examinations
December	12-16,	2022	Mon-Fri: Lecturers' Marking Days
December	22,	2022	Thu: GRADES DUE
December	12,	2022	Jan 6, 2023 Mon-Fri: RECESS

**Second Semester**

January	8-9,	2023	Sun-Mon: Students Arrival
January	9 – 13,	2023	Mon - Fri: Registration
January	16,	2023	Mon: Classes Begin/Late Registration
January	17,	2023	Tue: Orientation of New Students
January	26,	2023	Thu: NRM Anniversary
January	30,	2023	Mon: Last day for Late Registration
February	6,	2023	Mon: Last Day to ADD/DROP
February	13-15,	2023	Mon- Wed: Research Conference
February	20-24,	2023	Mon-Fri: Grade Auditing
March	2,	2023	Thu: Freshers' Ball
March	7,	2023	Tue: Honors Convocation
March	7,	2023	Tue: Senior Class Formation
March	13-17,	2023	Mon-Fri: Mid-Semester Exams
March	19-25,	2023	Sun-Sat: Environ. Stewardship Week
March	23-24,	2023	Thu-Fri: Sports Day
March	28,	2023	Tue: BUSA Election
April	2,	2023	Sun: Counselling Day
April	4,	2023	Tue: Senior Class Presentation
April	9-15,	2023	Sun-Sat: Week of Spiritual Emphasis
April	7-10,	2023	Fri-Mon: Easter Weekend
April	17-21,	2023	Mon-Fri: Exam Clearance and

April	25,	2023	Pre-Registration for Summer
April	26-May 12,	2023	Tue: Last day Special Registration
May	12-Aug 5,	2023	Wed-Fri: Final Examinations
May	15-19,	2023	Fri-Fri: SUMMER & RECESS
May	26,	2023	Mon-Fri: Lecturers Marking Days
			Fri: GRADES DUE

### Summer School

May	15 – June 9,	2023	Mon-Fri: Taught Summer
May	15,	2023	Mon: Registration
May	16,	2023	Tue: Classes Begin
June	3,	2023	Sat: Martyrs Day
June	7-8,	2023	Wed-Thu: Exams Taught Summer
June	9,	2023	Fri: Heroes Day
June	16,	2023	Fri. Last Day Practicum Registration
June	23,	2023	Fri. GRADES DUE

### Academic Calendar for In-Service 2022 – 2023

#### a) Teachers and other majors

The actual dates are dependent on the government timetable for schools; therefore, these are approximate only.

August	21,	2022	Sun: In-Service Begins
September	9,	2022	Fri: In-Service Ends
December	4,	2022	Sun: In-Service Begins
December	27,	2022	Tue: In-Service Ends
January	3,	2023	Tue: In-Service Begins
January	26,	2023	Thu: In-Service Ends
May 2, 2023			Tue: In-Service Begins
May 26, 2023			Fri: In-Service Ends

#### b) In-service Pastors

October	28,	2022	Fri: 1 <sup>st</sup> Session Begins
December	14,	2022	Wed: 1 <sup>st</sup> Session Ends
March	27,	2023	Mon: 2 <sup>nd</sup> Session Begins
June	9,	2023	Fri: 2 <sup>nd</sup> Session Ends

**BUGEMA UNIVERSITY ACADEMIC CALENDAR 2023 – 2024**

First Semester	August 6-December 11, 2023
Christmas Break	December 12, 2023 - January 7, 2024
Second Semester	January 8-May 10, 2024
Summer School	May 15-July 15, 2024

**First Semester**

August	3-4,	2023	Thu-Fri: Faculty & Staff Orientation
August	6-7,	2023	Sun-Mon: Students Arrival
August	7-11,	2023	Mon-Fri: Registration
August	14,	2023	Mon: Classes begin/Late Registration
August	15,	2023	Tue: Orientation of New Students
August	23,	2023	Wed: Last Day for late Registration
September	15,	2023	Fri: Last Day for ADD/DROP
September	20,	2023	Wed: BU Research Forum
September	29,	2023	Fri: End of Clearance for Graduation
October	2-6,	2023	Mon-Fri: Mid semester Exams
October	9,	2023	Mon: Independence Day
November	3-5,	2023	Fri-Sun: Graduation
November	12- 18,	2023	Sun-Sat: Week of Spiritual Emphasis
November	13 – 17,	2023	Mon-Fri: Exam Clearance and Pre-Registration for 2 <sup>nd</sup> Sem.
November	21,	2023	Tue: Last Day Special Registration
Nov.	22 – Dec. 8,	2023	Wed – Fri: Final Examinations
December	11-15,	2023	Mon - Fri: Lecturers' Marking Days
December	21,	2023	Thu: GRADES DUE
Dec.	11,	2023	– Jan 5, 2024 Mon-Fri: RECESS

**Second Semester**

January	7-8,	2024	Sun-Mon: Students Arrival
January	8-12,	2024	Mon-Fri: Registration
January	15,	2024	Mon: Classes Begin/Late Registration
January	16,	2024	Tue: Orientation of New Students
January	26,	2024	Fri: NRM Anniversary
January	29,	2024	Mon: Last day for Late Registration
February	5,	2024	Mon: Last Day to ADD/DROP
February	12-14,	2024	Mon-Wed: Research Conference
February	19-23,	2024	Mon-Fri: Grade Auditing
March	5,	2024	Tue: Honors Convocation
March	5,	2024	Tue: Senior Class Formation
March	11-15,	2024	Mon-Fri: Mid-Semester Exams
March	17-23,	2024	Sun-Sat: Environmental Stewardship Week
March	21-22,	2024	Thu-Fri: Sports Day
March	26,	2024	Tue: BUSA Election
April	2,	2024	Tue: Senior Class Presentation
April	7-13,	2024	Sun-Sat: Week of Spiritual Emphasis
April	5 - 8,	2024	Fri-Mon: Easter Weekend
April	15-19,	2024	Mon-Fri: Exam Clearance and Pre-Registration for Summer
April	23,	2024	Tue: Last day Special Registration
April	24-May 10,	2024	Wed-Fri: Final Examinations



May	10-Aug 8,	2024	Fri-Fri: SUMMER & RECESS
May	13-17,	2024	Mon-Fri: Lecturers Marking Days
May	24,	2024	Fri: GRADES DUE

### Summer School

May	13-June 7,	2024	Mon-Fri: Taught Summer
May	13,	2024	Mon: Registration
May	14,	2024	Tue: Classes Begin
June	3,	2024	Mon: Martyrs Day
June	5 - 6,	2024	Wed-Thu: Exams Taught Summer
June	9,	2024	Sun: Heroes Day
June	14,	2024	Fri. Last Day Practicum Registration
June	21,	2024	Fri. GRADES DUE

### Academic Calendar for In-Service 2023 – 2024

#### a) Teachers and other majors

The actual dates are dependent on the government timetable for schools; therefore, these are approximate only.

August	20,	2023	Sun: In-Service Begins
September	8,	2023	Fri: In-Service Ends
December	3,	2023	Sun: In-Service Begins
December	28,	2023	Thu: In-Service Ends
January	7,	2024	Sun: In-Service Begins
January	26,	2024	Fri: In-Service Ends
May	5,	2024	Sun: In-Service Begins
May	31,	2024	Fri: In-Service Ends

#### (b) In-service Pastors

October	27,	2023	Fri: 1st Session Begins
December	13,	2023	Wed: 1st Session Ends
March	25,	2024	Mon: 2nd Session Begins
June	7,	2024	Fri: 2nd Session Ends



## UGANDA NATIONAL ANTHEM

Oh Uganda!  
May God uphold Thee,  
We lay our future in thy hand,  
United, free,  
For liberty,  
Together we'll always stand.

Oh Uganda!  
The land of Freedom,  
Our love and labor we give,  
And with neighbours' all,  
At our Country's call,  
In peace and friendship, we'll live.

Oh Uganda!  
The land that Feeds us,  
By sun and fertile soil grown,  
For our own dear land,  
We'll always stand,  
The Pearl of Africa's Crown.



## EAST AFRICAN COMMUNITY

### *Chorus*

Jumuiya Yetu sote tuilinde  
Tuwajibike tuimarike  
Umoja wetu ni nguzo yetu  
Idumu Jumuiya yetu.

1. Ee Mungu twakuomba ulinde  
Jumuiya Africa Mashariki  
Tuwezeshe kuishi kwa amani  
Tutimize na malengo yetu
2. Uzalendo pia mshikamano  
Viwe msingi wa Umoja wetu  
Natulinde Uhuru na Amani  
Mila zetu na desturi zetu.
3. Viwandani na hata mashambani  
Tufanye kazi sote kwa makini  
Tujitoe kwa hali na mali  
Tuijenge Jumuiya bora.



## BUGEMA UNIVERSITY ANTHEM

Onward to progress, Bugema  
Ever serving, ever shining  
Countless youths have left your portals  
Ready to share the wonderful light;  
Our prayers will rise for you  
Wherever we may go  
Our good work will show  
That we're ever true to you.

Onward, Bugema!  
O'er the valleys and the hills  
Shine on, Bugema!  
O'er the plains and cities too;  
Lead on, press on, Bugema!  
Our praises will ring true.

Keep the standards high, Bugema  
Ever waving, ever rising  
For on you depends the future  
Of many a youth both far and near;  
So together we sing  
And together we serve  
Till the Lord's coming  
Bugema, you shall stand.

## **ABOUT THIS BULLETIN IN YOUR HAND**

You will need to refer to this bulletin time and again during your stay at Bugema University. This bulletin describes the academic program you have selected and the requirements you must fulfill in order to graduate. Therefore, it is imperative that you become familiar with it. As a matter of fact, if you make informed decisions after reading this bulletin, you should have no problems in selecting courses and determining the date of your graduation.

It shall be our endeavor to provide you with advice, suggestions, and choices based on what is laid out in the bulletin. It is advisable that you take advice from your academic advisor (Head of Department) at the university during registration, or while making important decisions regarding your academic life here.

Make sure you read this bulletin and do not lose your copy. This is your “Academic Manual.”

Have a good stay in Bugema University.

## MESSAGE FROM THE VICE CHANCELLOR

Serving an institution like Bugema University in a leadership capacity puts an individual on his tentacles at all times. This is not because of the many challenges one faces as an administrator but because of the holistic nature of the various activities incorporated in the curriculum of the institution, which demands a leadership style that is all encompassing.

Bugema University is an institution with two unique characteristics, which include a holistic curriculum and unity in diversity.

These two characteristics make the institution stand out among the many institutions of higher learning mushrooming all over Uganda and beyond. It is also a place where objectivity and transparency are expressed by the faculty, staff and students.

When you approach the gates of Bugema University the fragrance is sweet, mixed with a welcoming note, the ambiance tells you that you are entering a place where you will be inducted to go through a process of metamorphosis, which is all inclusive. That is Bugema University.

Even though away from the hustles and bustles of city life, BU is cosmopolitan in nature with students from sixteen different countries. At Bugema University one witnesses an inter-marriage of cultures and traditions. This integration helps us adopt a complete new culture – a culture which considers integrity and excellence as its basic ingredients.

Many good things are happening at BU right now. Seeing is believing. That is why we want you to come and be part of this institution. Your life will never be the same again once you become a part of us. Friendly faces are waiting to welcome you into the family, which stands as a symbol of unity, strength, and commitment.

BU = Building Unity with integrity around the world. Get involved!  
May the Lord bless your decision.

*Prof. Patrick Manu*  
*Vice Chancellor*

**August 10, 2019**

## ABOUT BUGEMA UNIVERSITY

### Address and Contact Information

Bugema University is located 32 kilometers north of Kampala on Gayaza-Zirobwe Road. Public Taxis are available at a cost of Ushs 4,000 from the Old Taxi Park in Kampala city, or special cars can be hired at an approximate cost of US\$ 60,000.

Bugema University  
Post Office Box 6529 Kampala, UGANDA

*Telephone* : (256) 312 351400  
*Mob/WhatsApp*: +256 773 408 090  
*Email* : registrar@bugemauniv.ac.ug  
*Website*: www.bugemauniv.ac.ug

Bugema University is committed to equal opportunity and does not discriminate against qualified persons on the basis of age, gender, color, religion, national, or ethnic origin in its educational admission policies. Nevertheless, studying at Bugema University is a privilege and not a right.

### A Brief History of Bugema

With the entry of the Adventist church in Uganda in 1927 came also the first Adventist educational institution in Nchwanga in West Central Uganda. The primary function of the institution was to train pastors and church workers. In 1948 the institution moved to a newly purchased property of 640 acres in Bugema, 34 Kilometers from Kampala. Two years later a secondary education at 'O' level was started. By 1970 a junior college began its operations training pastors for the field. Four years later, the denomination upgraded the institution into a four-year seminary, granting bachelor's degrees in theology (BTh). In 1985 business was added, and in 1990 education. In 1994, the institution obtained a government license to operate as a university. The Adventist Accrediting Association (AAA) visited the University in 1995 and recommended accreditation to Bachelor of Theology, Bachelor of Business Administration (in Management and Accounting), and Bachelor of Arts in Religion.

Subsequent visit of the AAA and International Board of Education (IBE) allowed the university to restructure their programs under two schools: School of Arts and Social Sciences and School of Business. The former includes four departments: Development Studies, Education, Social Work and Social Administration, and Theology and Religious Studies. The later includes three departments: Accounting and Finance, Management, and Information Technology. Under these departments, the university offers 12 degree programs with various majors and several vocational certificates and professional licenses.

In year 2000, the university had student population of 800. There was a need to expand the offerings in various departments especially in the Department of Education. As a result, the following teaching courses were introduced in education: Geography, Mathematics, Chemistry, Biology, Physics, English Language and Literature in English. The school of Social Sciences also expanded to include Development Studies. During the AAA evaluation of 2004 the student population was 1,236. Students come from 15 countries of Africa.

In 2008, the administration embarked on an extensive promotion for the university in Central, South and East Africa. In this same year the AAA evaluation team visited

Bugema and found the enrollment at 2000 students. The growth of the university was appreciated by both the AAA and the National Council of Higher Education in Uganda which in turn recommended Bugema to the President of Uganda to be given a Charter on June 29, 2009. His Excellency President Yoweri Kaguta Museveni signed the Charter on April 26, 2010. As all chartered universities in Africa are expected to do, Bugema started a Graduate School. The subsequent visits of IBE (2010) and AAA (2011) allowed the University to run a Graduate Program in Business Administration (MBA), in Education (MA), in Development (MA), and in Counseling Psychology (MSc), and an MPH program.

Currently, Bugema University offers a wide range of undergraduate programs in areas of Health Sciences, Natural Sciences, Education, Theology and religious studies, Social Sciences, Business and Computing and informatics. At Graduate studies level, the programs include Business Administration, Development Studies, Counseling Psychology, Public Health, Education, Computer Science, Social Work and Social Administration. Furthermore, the Graduate School offers PhD programs in Rural Development, Environmental Management and Education.

### **Accreditation**

Bugema University holds accreditation from the Adventist Accrediting Association based in Maryland, USA. (AAA) and chartered by the Republic of Uganda through the National Council of Higher Education, as an institution of higher learning.

### **Quality Assurance**

The University has a quality assurance system which delineates self-regulating and self-maintaining procedures to maintain standards of excellence in academic delivery and performance.

### **Mission**

The mission of Bugema University is to offer an excellent and distinctive holistic Christian education designed to prepare students, through training, research, and scholarship, for productive lives of useful service to God and to the community with integrity, honesty and loyalty.

### **Philosophy**

Bugema University holds as its philosophy the belief that true education fosters the restoration of the lost image of God in human beings through the harmonious development of the physical, mental, social, and spiritual dimensions of life. The philosophy is manifested in the “3H” program of the University curriculum, which emphasizes the learners’ balanced and positive development of the Head, Heart, and Hand as they prepare for service here and for life in the hereafter.

### **Vision**

Bugema University envisions training for “Excellence in Service”.

### **Aim & Objectives**

- Bugema University aims to develop the whole person; therefore, the following objectives reflect this holistic approach:
- To provide academic programs which will allow the students to acquaint themselves with various fields of knowledge and to acquire skills that will facilitate personal, social, academic, and professional development in order to meet individual and societal demands.



- To instill in the students an unswerving allegiance to the principles of Christian faith and a sense of personal responsibility so that they are prepared to render useful service to God and to humanity.
- To lay emphasis on applied research relevant to the development needs of the community, including encouraging research leading to the development of patents.
- To encourage all faculties to devote part of their time to research for publication in internationally recognized journals.
- To select its students solely on the basis of merit while taking cognizance of the need to apply special criteria to potentially able but disadvantaged students.
- To continue upgrading the quality of its teaching, research and administrative staff through vigorous staff development and staff appraisal schemes.

### **Functions**

The university seeks to fulfill its vision, mission, and objectives by undertaking the following functions:

**Instruction:** Bugema University offers degrees, diplomas, and certificates in various areas.

**Research:** The university encourages the faculty and students to engage in social and scientific research aimed to enhance the development of society and its institutions.

**Community Outreach:** The university reaches out to the community, through direct and indirect communication, to disseminate information acquired by means of instruction and research through seminars, conferences, workshops, and through different public services. It also has health, social and spiritual programs which include Community Development and Counselling services.

### **Spiritual Life at Bugema University**

A fundamental objective of the university is to develop the spiritual faculties of the student. Bugema University believes that God created human beings in His own image so that humanity should worship Him.

### **Convocation**

Since the purpose and existence of the university is to enable students to dedicate their lives to selfless service for God and man, students are expected to attend weekly convocations and special weeks of spiritual enrichment arranged by the university administration, as well as various weekly and daily services by the university church. These programs provide students important opportunities for personal enrichment and spiritual growth.

Choosing to come to Bugema University implies willingness to attend these appointments as part of the total educational package. Daily worship, weekend services, as well as weekly assemblies are important components of the university program in pursuit of this objective. All students are encouraged to attend these convocations, which are part and parcel of the academic program.

There are other religious activities, which offer students additional opportunities for Christian development and service. Among these are group prayers, off-campus witnessing, and activities of the Adventist Youth Society.

### **Sabbath Observance**

The Seventh-day Sabbath is observed at Bugema University from sunset Friday to sunset Saturday according to the Bible. Seventh-day Adventists believe that this is a day to take

a holiday from work and study, but take time to relax, rest, worship and praise God. All students are expected to conduct themselves in harmony with the sacredness of this day. In addition to the structured meetings and worship services, the students are encouraged to participate in the prayer bands, witnessing programs, and other less formal religious activities that promote Christian development and service.

### **Student Life and Services**

Bugema University, being a Seventh-day Adventist institution, recognizes that true education has to do with the harmonious development of the whole person. To achieve this broad aim, the University provides an environment in which students are encouraged to develop and strengthen their commitment to Jesus Christ, experience personal and social growth, develop their appreciation for beauty, and develop a pattern of healthful living, as well as achieve academic excellence. More information about student life and services follows:

#### **Food Services**

Bugema University operates a bakery, an adequately equipped kitchen, and a cafeteria offering a balanced vegetarian diet. Since there are no eating facilities in the residence halls, as residence hall students are encouraged to take their meals in the cafeteria. No provision is made for food preparation in the rooms. The cost of three meals a day is included in the boarding fees. Students living in hostels make their own arrangements for their meals. The university operates a snack center and there are privately owned restaurants near campus.

#### **Housing and Accommodation**

Female students who do not live either with their parents or spouses are encouraged to live in residence halls on campus. In each room, beds and other basic conveniences are provided, but students are expected to provide their own mattresses and bedding. Male students who do not live either with their parents or spouses may live in one of a number of private residence facilities approved by the university which are located near the campus. There are no facilities for married student housing.

Each residence hall student is issued with a key to the room at the time of entrance and is to return the key when moving out. A student who loses the key will be charged a replacement fee equivalent to the current cost.

At the end of each semester, the room will be checked for reasonable cleanliness and any damage. Where necessary, charges for extra cleaning and/or repairs will be made to the student's account. Non-residents are not permitted to use the facilities in the residence halls.

Room and board fee will be charged to students remaining on campus during vacation. Those intending to stay should apply a month before school closes each semester.

#### **Health Facilities**

A medical center with the services of qualified medical personnel is located on campus. Health and emergency care are available to students as well as members of the community. The facility includes services for both inpatients and outpatients, laboratory services, maternal – child health services, dental services, optical services, HIV counseling and testing and a range of community health services.

### **Student Handbook**

Each student is provided with a student handbook, which contains guidelines, rules and regulations governing the student's stay in this university. It is the responsibility of the student to obtain a copy and get acquainted with the information therein.

### **Leave of Absence**

When a student needs to leave the campus for any reason, proper arrangements must be made with the office of the Director of Students Affairs. Forms to be used are available at the residence halls. For detailed information about leave of absence, consult the Student Handbook.

### **Marriages**

As a general rule, marriages are not encouraged during the academic year. Exceptions may be granted on special request.

### **Literature Evangelism Ministry**

Students can earn a substantial amount of money towards their university fees by engaging in the Literature Evangelism Ministry during the holidays, particularly during long vacations (June-July). This can be done in a number of territories in the East and Central Africa Division, and even outside of Africa, e.g. in Scandinavian countries. Any student who wishes to join this noble activity will have to join Ministerial Association which gives out recommendations.

### **Off Campus Trips**

The university recognizes that providing opportunities for students to participate in study tours, industrial attachments, field research trips, club promotional tours, and mission service trips may significantly enhance an academic program. The university requires that any student participating in official trips should behave in accordance with the regulations governing students as stipulated in the Student Handbook.

### **Student Government**

The Bugema University Student Association (BUSA) is the primary student association in which all registered students, including in-service, satellite campus, and graduate students are members. This organization exists to give leadership opportunities to students and to provide a formal means of communication with the faculty and administration for the purpose of improving the learning environment of the university. Elections to student government are held once a year. BUSA operates a canteen, copy center and computing facility near the athletic field. Locally known as "the container", services available include typing, printing, book binding, scanning and photocopying. In the container shop, one can purchase soft drinks, snacks, airtime, minor school supplies, etc.

### **Student Clubs**

There are several academic clubs and special interest clubs that have been established at the university to help the students develop in their fields of study and other interests. Students are invited to join clubs according to their interests, which may have a nominal membership fee.

### **Student Vehicles**

The university regulates the use of student owned vehicles. Students are permitted to have their own vehicles on campus under the following conditions: on arrival, the vehicle must be registered with the office of the Director of Students Affairs and the security offices; the driver of the vehicle must be properly licensed and the vehicle appropriately

insured. Bringing a vehicle to campus is a privilege and not a right. Driving recklessly, using the vehicle for unauthorized trips off campus, or any other abuse of the privilege may be cause for its withdrawal. Further information on this issue is stipulated in the Student Handbook.

### **Work Program**

The university operates a number of auxiliary and vocational services where students may work part-time to earn some money in order to defray some of their school expenses. These opportunities, to engage in productive and useful labor, help develop character traits of industry, dependability, and initiative. In the process, students may also acquire valuable vocational skills.

### **Recreational Activities**

Facilities for volleyball, basketball, soccer, netball, handball, badminton and table tennis are available on campus. There is also ample space on the campus for exercise, jogging, or walking. Since physical fitness promotes health, each student is encouraged to adopt a regular program of recreation and exercise. In addition, the university has slated every Tuesday beginning from 4.00 pm for games and sports.

### **Internet**

Internet services are available in the library and at the Community Tele-Center, located just across the road from the main gate. Students in the Department of Computing and Technology also have internet access in one of the computer laboratories.

### **Code of Conduct**

Bugema University is a Seventh-day Adventist institution of higher learning founded on Christian principles; a conscious effort is made to maintain standards of dress, conduct, social standards and self-control, which reflect the spiritual heritage of Seventh-day Adventist Church.

The Christian ethics demand respect for duly constituted authorities. This includes both civil authorities and those other authorities such as parents, teachers, work supervisors, university administrators, etc., to whom the individual is subordinated.

Bugema University is dedicated to upholding respect for civil law as well as respect for the principles of Christian deportment. Off-campus misconduct will call for disciplinary action by the Student Disciplinary Committee. Further, the academic role does not grant student's legal immunity or sanctuary. At the same time, misconduct on campus may be judged not only by the standards of the legality and suitability, but also by disruption of the normal functioning of the university. Thus, it is recognized that some types of misconduct may constitute violations of both civil and university codes, and actions may be taken by both civil and university authorities without constituting double jeopardy. While enforcement of rules and regulations is of subsidiary concern to this institution, the primary concern is to maintain the integrity of its educational function by upholding the principles on which it was founded.

Bugema University recognizes that its work, while being educative and redemptive, involves a certain level of custodial function, and it takes seriously these responsibilities. It asks the students to seek to live by the principles of the Scriptures. Students who are committed to being Christian ladies and gentlemen are not likely to find themselves in conflict with University expectations.

However, students who, through dress, appearance, conduct, or attitude, clearly demonstrate an unwillingness to cooperate with the expectations of the university, as outlined in the Student Handbook, may be asked to withdraw from the university or

may be denied readmission for the succeeding semester(s). Christ is our example - the following activities are not Christ-like and are not permitted on or off campus:

1. Possessing or using illegal drugs, tobacco, or intoxicating drinks in any form.
2. Stealing or gambling of any kind.
3. Using vulgar language or possessing degrading literature.
4. Defying authority and inciting others to insubordination.
5. Using violence in any form, including cruelty to animals.
6. Tampering with locks, illegally possessing keys to any university lock, vandalizing, illegally entering university buildings, etc.
7. Possessing firearms or weapons of any kind.
8. Engaging in any form of immorality.
9. Instigating or inciting other students into lawlessness.
10. Any form of public display of sexual intimacy.
11. Convening, attending or addressing unauthorized meetings.

Further information on this can be found in the Student Handbook.

## **THE E. W. PETERSEN MEMORIAL LIBRARY**

The library is named after one of our pioneers, E. W. Petersen, who in 1948, helped to found the institution that has become Bugema University.

The library is central to academic life at the university. It provides resources for use in the instructional, professional and curriculum programs of the faculty, students and other users to achieve intellectual growth and academic excellence through scholarship, research and quality Christian education.

The university library supports the academic program by maintaining important facilities and valuable collections such as internet access, printed materials, CD-ROMs, theses, e-journals and e-books, on line catalog access, listening and viewing room for multi-media equipment. When using any library facilities, please do not hesitate to approach any member of the library administration or staff for assistance.

### **Library Mission Statement**

The primary objective of the library is to provide quality and substantial collections to assist faculty, staff, students and researchers increase their knowledge in any area of development. It also provides religious materials to strengthen their faith so that they can achieve personal and spiritual goals.

To effectively serve faculty and staff members, students, researchers or any users in the community with adequate, high technology facilities, services and resources that they will have better achievements, for a better future.

### **Library Vision**

To organize and have a readily accessible collection of right materials by having updated materials and high technology equipment to support and meet the institution academic curriculum requirements, instructional, research work and individual needs.

### **Opening hours**

Sunday	8:00 am - 6:00 pm 7:45 pm - 10:00 pm
Monday	8:00 am - 6:00 pm, 7:45 pm - 10:00 pm
Tuesday:	8:00 am - 6:00 pm, 7:45 pm - 10:00 pm
Wednesday:	8:00 am - 6:00 pm, 7:45 pm - 10:00 pm
Thursday:	8:00 am - 6:00 pm, 7:45 pm - 10:00 pm
Friday:	8:00 am - 12:00 noon
Saturday:	7:45 pm - 10:00 pm

### **Services**

- Lending
- Provision of general and specific information
- Literature search
- Readers advisory services
- Photocopying services
- Binding services

## ADMISSION AND REGISTRATION

Admission requirements vary slightly according to the program the applicant is seeking admission for and/or individual circumstances. The school or department in which the applicant wishes to register may prescribe certain additional course requirements if the student is deemed deficient. The general requirement for different programs are as follow:

### Undergraduate Degree Programs

- O-level certificate with at least four passes in approved subjects, including a pass in English Language, or equivalent, and
- A-level certificate with two principal passes in relevant subjects or equivalent, or Higher Education Certificate (HEC) Accredited by NCHE with a minimum GPA of 2.8, or
- A certificate of aptitude test pass (Mature Scheme Entry Exam) from the center officially recognized by the NCHE, or
- A diploma in a relevant subject from a recognized educational institution.
- For degree in Education, one must have a principal pass (or C+ or 55%) in each of the relevant teaching subject.

### Diploma Programs

- O-level certificate with at least four passes in approved subjects, including a pass in English Language, or equivalent, and A-level certificate with at least one principal pass at A-level in a relevant subject or its equivalent, **OR**
- Higher education Certificate (HEC) Accredited by NCHE with a minimum GPA of 2.5, **OR**
- A certificate in a relevant subject from a recognized educational institution, **OR** For a Diploma in Secondary Education, one must have two principal passes or (C+or 55%) in each of the relevant teaching subject, **OR**
- For a Diploma in Primary Education, one must have a Grade III (or P1) Teacher's Certificate from a recognized institution.

### Higher Education Certificate (HEC)

- UACE with at least two subsidiary passes or its equivalent as determined by the National Council for Higher Education (NCHE) in consultation with the Uganda National Examination Board, where one of the subsidiary passes must be from a principal subject or one principal pass, **OR**
- Vocational qualifications at level 2 or level 3 of Uganda vocational qualifications Framework, **OR**
- An Ordinary 2 years certificate from an institution recognized by NCHE, **OR**
- Foreign secondary school qualifications that are not considered equivalent to UACE but permit admission in Higher Education in their countries, with at least five subjects with a minimum overall grade of C (or 55%) (equivalently a Ugandan Credit 5).

### Certificate Programs:

- O-level certificate with at least four passes in relevant subjects.
- HEC with a minimum GPA 2.0.

### Mature Entry Examination

This is an aptitude test given to individuals who do not meet the minimum requirement for admissions to the University but have been exposed to adequate knowledge acquired formally or informally. The individual must be at least 25 years of age and the exam must be taken from the NCHE authorized centers only.

**NOTE:** For specific additional requirements kindly, see under each School or Department in question.

### **Application Procedure**

1. Obtain an application form from the Registrar's office, liaison offices, or official website of the University (www.bugemauniv.ac.ug).
2. Fill the form correctly and attach copies of all your academic certificates and documents (pay the application fee as stipulated in the application form).
3. Return these documents promptly to the Registrar's office at least 3 weeks before the beginning of the new academic year.

If your application is accepted, you will receive an acceptance letter from the Registrar. You may come to the university only if you have already received the acceptance letter.

### **Admission of International Students**

International students may be admitted if they hold either comparable certification or university admission status in their own country. If you come from a country where the system of education does not have an A-level system; for example, Kenya, a student is expected to enroll for Higher Education Certificate.

### **Academic Documents for Admission**

At the time of the student's first registration, the student is required to present original admission letter and academic documents. They will be certified and returned to the student. However, a student may be requested to present them again at the Registrar's Office or to the Deputy Vice-Chancellor – Academics' office should the need arise.

### **Upgrading From One Level to Another**

Students wishing to upgrade from certificate to diploma or from diploma to degree should have the following,

- i. Documents to show that the previous study is completed. This can be a certificate and a transcript or a completion letter and a partial transcript.
- ii. Recommendation from the Head of Department authorizing the student to join the next level.

### **Transferring to Another Department**

This is acceptable under the guidance of the department heads and the Registrar's Office. A student wishing to transfer to another department or course may do so only after completing 18 credit hours, which is equivalent to one semester. The student must check with both the current and the new department to know whether they qualify for the transfer. If it is acceptable, the student must obtain Change of Major or Program Form from the Registrar's Office and apply.

### **Registration**

Students are required to report to the university on the scheduled date so that they may register and begin classes on time. Usually, one week is set apart for registration. During registration, new students are given orientation to the university, its programs and facilities.

### **Registration Procedures**

There are five basic steps in the registration procedure as follows:

- At the Business Office, students need to
  - Arrange for financial payment
  - Obtain financial clearance



- At the student's Academic Department, students need to
  - Obtain a registration form,
  - Pay departmental club fee,
  - With the advisor, select courses in accordance with the recommended schedules published in this bulletin, upload them in ERMS, and
  - Obtain approval for the courses selected from the department chairperson.
- At the Dean of Student's Office, students need to:
  - Obtain their residential status,
  - Register for the Bugema University Student Association (BUSA), and
  - Register and clear financial obligations to respective national and/or social clubs,
  - Submit BUSA subscription receipt for due approval.
- At the Registrar's Office, students need to:
  - Complete registration of student's details,
  - Obtain Registration Card printed from the database. Registration Card is necessary to gain entry when classes begin and other services, and
  - Keep the registration card safe for day to day use.

Students who, for sound reason(s), arrive after the closing date of registration may be allowed to register. However, a fee that increases daily is charged for late registration. (Consult the financial section of this bulletin and business office staff for details). Late registration officially closes at the discretion of the Deputy Vice Chancellor Academic Affairs. The university may consider registration of students with special cases, such as accidents or death in the family but with consultation with the lecturer(s) to ascertain if coursework (assignment and tests) have been done.

### **Identity Cards**

The Registrar's Office in collaboration with United Bank of Africa (UBA) prepares the student identity cards immediately after registration. Students are issued a card that is valid for duration of their academic program free of charge. The same card can be activated, but not compulsory, to act as a VISA card in case one wants to open an account with UBA according to the bank's requirements. In the event that a BU identity card is lost or stolen, the student should report to the police and obtain a police report, which must be presented to the Registrar's Office staff to process a new identity card at a fee.

### **Academic Affairs**

The university offers a variety of degree, diploma and certificate courses. A student is expected to make intelligent choices from the available academic programs that will lead to a lifetime career. Students coming from non-English speaking countries will be required to write an English placement examination prior to enrolling for their first semester. If the student does not obtain 50% in this test, he/she will be required to attend remedial English classes for at least one semester.

### **Semester Sessions**

The university operates under a semester system. Each semester runs for 18 weeks subdivided in this way: one week of registration, 15 weeks of instruction, and two weeks for final examination. The value of each course offered is expressed in terms of credit units. One credit unit represents one fifty-minute class period in each of 15 weeks, two hours of tutorial, or two to three hours of practical periods per week for 15 weeks of the semester. The student is expected to spend a minimum of two hours of outside preparation for each class period. Every academic year consists of two regular semesters: first semester from mid-August to mid-December; second semester from early January to

early May. For Diploma and Certificate in Nursing the semesters run according to the Nursing Council of Uganda.

### **Summer Sessions**

Summer session is meant for industrial attachment/practicum. However, some schools or departments may opt, with the approval of the Senate, to offer some courses during summer, on the condition that the students are in their final semester and have not more than two courses or 6 credit units remaining to meet graduation requirements. A minimum of five students must enroll for the course and only fulltime lecturer(s) will be engaged in the teaching. The duration summer session is usually six weeks.

### **Mode of Instruction**

While lectures are considered the primary mode of instruction, the university recognizes that students have different learning styles and need to experience other learning environments. Each lecture class involves at least one other type of learning environment, and credit is awarded on the basis of attendance and performance in either tutorial or practical learning experiences, or both. Tutorial sessions, are semi-structured, in which students are invited to engage in the material of the course through other means, such as discussion, debate, group study, problem solving and projects. Practicals often involve hands-on experiences in science or computer laboratories or some other practical setting. Other courses may be entirely practical and have no lecture component, such as industrial attachment or teaching practice. In addition, each degree program requires independent research under the supervision of an individual faculty member as a capstone to the program.

### **Dead Semester or Year**

A student who is unable to continue with his/her classes for a semester or a year should submit an application to the Registrar through the department for a dead semester/year, supported by a communication on the same from the sponsor. A student who fails to do so may be prompted to reapply upon coming back.

### **Withdrawal from the University**

Students who wish to withdraw from the university must obtain a clearance form from the Registrar's Office. A student should fill in the form and obtain all the signatures on the form as indicated. Withdrawal from the university only becomes effective on submission of the withdrawal form duly filled out. A withdrawal letter shall be issued to a successful applicant.

### **Adding and Dropping Courses**

If you wish to add or drop a course, you must fill in a form from the Registrar's Office, get the approval of the lecturer(s) concerned, and return the form to the Registrar's Office. A fee is charged for any changes in this respect. Courses may be added upto the published "Last day to enter any class." Courses dropped by this date will not appear on the student's permanent record. If any course is dropped after this date, an F (Failure) is recorded.

### **Auditing Courses**

To audit a course, you will need to fill a designated form from the registrar's office and pay 70% of the fee for each audited credit unit. You may attend the classes regularly, but you will not take quizzes or write examinations. No credits or grades are given for courses that are audited. If you desire a credit after sitting in the classes, you will have to repeat the course at another time.

## Absences

Students are required to attend all class activities, including lectures, tutorials and practicals. Attendance is regarded as a vital aspect of education at Bugema University. Absences are counted from the first day of classes and are classified as excused and unexcused.

Excused absences involve reasons of illness, authorized trips, or circumstances beyond the students' control. Absences for any reason other than those mentioned above are considered unexcused. Class work such as quizzes and tests missed during an excused absence may be made up through arrangements with the instructor(s) involved. Class work missed during an unexcused absence will not be made up. If the student's number of absences exceeds 15 percent of the total number of contact hours in the semester for a particular class, the student may be advised to drop the course.

Consistently coming late to class is not acceptable. Coming to a class late 5-10 minutes three times is counted as one absence. Entering a class after 15 minutes or missing 15 minutes or more from a class is considered an absence.

## General Assembly

A weekly General Assembly is held every Tuesday between 10:00 - 11:00am. However, the time of this meeting may be changed due to unavoidable circumstances. In this case, the student body is notified. Attending assemblies is part of the academic life at university and therefore, all students of Bugema University are required to attend.

## Grading System

The grade scheme is based on a five-point scale as recommended by Statutory Instrument No. 21 of 2015 as gazzeted in the Uganda Gazette No. 27 vol. CVIII as outlined below:

### Percentage Range

From	To	Grade	GPA	Word Rating
80.00	100.00	A	5.00	Excellent
75.00	79.99	B+	4.50	
70.00	74.99	B	4.00	Above Average
65.00	69.99	C+	3.50	
60.00	64.99	C	3.00	Average
55.00	59.99	D+	2.50	
50.00	54.99	D	2.00	Below Average
00.00	49.99	F	0.00	Failure

The final grades for each semester are recorded on the student's permanent record and can be accessed through one's ERMS account after they are published.

## Classification of Degrees and Honors

Upon the recommendation of the Senate, a student may graduate with the degree or diploma, certificate following the conditions stated below:

### Degree

Letter Class	GPA Range	Grade	Status	Intern'l Status
First	4.40 - 5.00	A	Honors	Summa cum laude
Second Upper	3.60 - 4.39	B+	Honors	Magna cum laude
Second Lower	2.80 - 3.59	B		Cum laude
Pass	2.00 - 2.79	C		

Diploma Letter Class	GPA Range	Grade
Distinction	4.40 - 5.00	A
Credit	2.80 - 4.39	B
Pass	2.00 - 2.79	C

### GPA Calculation

Credits for each course are multiplied by grade point and then the total number of credits is divided by the total number of grade points according to the scale below:

Sample Course	Grade	Credits	Points	Total	
Course 1	A	3	3	5.00	15.00
Course 2	B	3	3	4.00	12.00
Course 3	A	3	3	5.00	15.00
Course 4	A	4	4	5.00	20.00
Course 5	B+	3	3	4.50	13.50
Course 6	D	3	3	2.00	6.00
<b>Total</b>		<b>19</b>			<b>81.50</b>

### Note

Total is obtained by multiplying credit say 3, by the points, say 4.0, to get 12.0

GPA = Sum of Total / Sum of Points, [e.g. 81.50 / 19 = 4.29 (second upper)].

### Other Grade Symbols

Other symbols that may appear on the grade report are as follows:

**DG - Deferred Grade:** A deferred grade (DG) is assigned in certain courses that are of such a nature that they may not be completed within one semester. A DG will be given each semester until the project is completed and a final grade is assigned. Courses for which a DG is assigned normally run over two semesters. Any extension of time beyond two semesters needs the approval of the DVC Academics. A DG has no effect on the grade-point average.

**I - Incomplete Grade:** Students may receive the grade of I (Incomplete) in a course because of illness or other circumstances beyond their control. If a student, for reasons of illness or emergency at home, lack of fees, misses the final examination, and do not wish to receive an F grade for the course, he/she must apply for an Incomplete Grade (I). A duly signed form approved by the Registrar and the Instructor, must be submitted to the Registrar's office with a copy to the Examination Office. For such cases, the Examination Council at a fee will organize a special exam at the beginning of the proceeding semester as indicated in the calendar of events. An 'I' grade should be cleared within one academic year. If it is not cleared, it automatically changes into an F grade and a student will be required to re-register for the course(s). If an exam is missed for academic negligence, the student will receive an F grade and will be asked to register for the course again.

**P - Pass:** Certain courses are assessed on a pass or fail basis. In the case of a pass, a "P" will appear on the transcript but does not contribute to the calculation of the GPA. Failure in a pass or fail course will result in an "F" and the student must repeat the course, but the F does not contribute to the calculation of the GPA.

**CR - Credit Repeat:** If a student repeats a course to obtain a better grade, the former grade is changed to CR and remains on the transcript. The CR does not contribute to the

calculation of the GPA. Students need the permission of the Deputy Vice-Chancellor Academic Affairs if they wish to repeat a course for which a grade of D or better was earned. You do not need to repeat a course if you received a D; however, an F grade must be repeated. You may apply for the Registrar's office to mute the CR/FR in your final transcript.

**EX - Exemption(s):** A student may have done a course that is transferable to a higher level and does not wish to repeat it. Such courses, for instance, practicum and General Education Courses (students of lower levels are allowed to sit with those of higher level in the same class). In such cases, a student will apply to the department/school and be supplied with the letter describing clearly the course(s) exempted. A copy of the letter will be sent to the Registrar's Office where the courses will be registered under Exemption Category (Ex) and will not count towards the GPA calculation.

### Signs and Definitions of Credit Units

<b>LH</b>	-	Lecture Hrs
<b>TH</b>	-	Tutorial Hrs
<b>PH</b>	-	Practical Hrs
<b>CH</b>	-	Contact Hrs
<b>CU</b>	-	Credit Units
<b>CR</b>	-	Credit Hrs
<b>Hrs</b>	-	Hours

15 hrs of Lecture = 1 CU/Cr

30 hrs of Tutorial = 1CU/Cr

45 hrs of Practical = 1 CU/Cr

This means that:

45 hrs of Practical = 15 hrs of Lecture = 1CU/Cr, and;

30 hrs of Tutorial = 15 hrs of Lecture = 1 CU/Cr

### Duration of Academic Programs

The duration of a degree and Diploma/Certificate programs will not exceed seven and five years, respectively. In the event that seven years lapse before the student completes the requirements of the degree, the student should seek for re-admission. All degree courses require three to four regular academic years. Students who come from countries where there is no Advanced Level of secondary education will be required to take Higher Education Certificate before they embark onto the degree program. Diploma and certificate courses require two regular academic years. A student who is upgrading from certificate to diploma or diploma to degree in the same area of specialization, may request for exemption of some course similar to those done in the lower level.

### Change of Bulletin

A student who for some reasons fails to complete his/her studies within stipulated time and the Bulletin in which he/she was admitted ceases, he/she will be required to change to a current one. The Head of Department will determine the relevant courses to be transferred and the student will be required to abide with the new bulletin for his/her graduation.

### Breaking Residency

A student who has broken residence for a period of less than seven years can retain his work he had completed provided the bulletin has not changed. However, if the bulletin

has changed, the student may lose some courses and adapt to the new bulletin based on the evaluation of the Head of the Department.

When the student breaks residence for seven years and above, the student will forfeit the previous work done and seek for readmission. In such cases the student may be required to repeat a previously completed course work.

### **Transfer of Credits to Bugema University**

Bugema University grants the privilege to transfer credits from a recognized University in order to complete the degree requirements. A student will be required to request the Registrar of the previous institution to send the transcripts directly to the Registrar of Bugema University. Such credits earned from the previous University will be considered for GPA calculation and be counted toward degree requirements.

### **The following stipulations apply:**

1. No grade below D+ or equivalent will be accepted, and the overall GPA for all previous university work must be at least 2.50.
2. A minimum of 15 upper division courses (45 credit units), or equivalent, in the student's major must be taken in residence. Provided the courses are suitable, and a sufficient number are at upper division level, the rest of the major requirements may be met by transfer credits.
3. A minimum of 5 regular upper division courses (15 credit units), or equivalent, in the student's minor must be taken in residence. With suitable courses and with enough credit units at upper division level, the remaining minor requirements may be met by transfer credits.
4. Transfer of credit units may not be accepted until a student has successfully completed one semester in residence.
5. If a transfer student requests a transcript from Bugema University before he/she graduate, credit units from previous institutions attended are not listed on the transcript.
6. Regardless of the number of transfer credit units accepted, a student must meet the general residence requirements of Bugema University.

### **ERMS Account**

Every registered student is given an ERMS (Educational Records Management System) account. Students will use this account in all academic activities including monitoring their progressive reports. Students are encouraged to give their parents or sponsors their ID numbers and password to enable them monitor their progress. A print out of an assessment sheet that indicates all the courses covered, grades earned, and the cumulative grade point average of all the subjects covered may be printed once for each student upon request. Additional assessment sheet will attract a fee.

### **Change of Campus/Centre /Program**

A student who wishes to change from one Bugema University campus/centre or collaborating institution to another or from one program to another, should do so at the beginning of an academic year, and under the instruction of the sponsor. In such a case, a student will fill a designated form from the host campus/centre, get cleared by the relevant department(s) as indicated in the form and thereafter issued with a transfer letter and an assessment sheet of all courses done up-to-date. No Bugema University continuing student should be accepted in another Bugema University campus/centre or collaborating institution without adhering to this procedure. No student will be allowed to change if he is remaining with one semester of study. Change of campus or program is only done at the end or beginning of academic year.

## Coursework

Course work is also known as continuous assessment. It accounts for 50% of a student's final grade. Depending on each lecturer, instructor or tutor, course work normally consists of assignments, projects, presentations, quizzes, tests and mid semester exams or a combination of some of these items. Unless there is any special arrangements made between the class or any student and his/her instructor, students are required to do and submit their course works within that specific semester or time the course is taught. Otherwise, any work submitted after the semester or the arranged time will not be accepted and therefore will not contribute to the student's final grade.

## Examinations

All exams are serious, compulsory, well-organized, and essential academic exercises to which a lot of money, effort, and time are dedicated. Information about examinations is given in the Examinations Policy and Regulations document that is issued to every student by the Examinations Council of the University. However, the following should be noted;

1. **Final Examinations:** All students are required to take the final examinations at the time scheduled. Credit is not granted for a course unless the student completes the required examinations. Failure to take the final examination at the scheduled time will automatically result in a failing (F) grade despite passing course work. In a situation where a student fails to sit for an examination paper due to illness or any emergency, the student will be allowed to sit for a special exam during the next semester after approval from the Deputy Vice-Chancellor Academic Affairs. Such special exams shall be given on payment of a special exam fee, and taken according to schedule in the University Calender within one academic year.
2. **Examination Period:** The last two weeks in the semester are reserved for writing final examinations. There are usually two examination sessions each day: First Session 09:00 - 12:00 noon and Second Session 02:00 - 05:00 pm. All final examinations account for 50% of the final grade. No student will be permitted to write final examinations unless all fees are paid or satisfactory arrangements have been made with the business office. All final examinations are held at specified venues and times.
3. **Examination Schedule:** Students are expected to adhere to the published examination schedule. However, should the examination schedule require students to sit for more than one exam in a given session, this matter may be brought to the attention of the chief examination officer for possible re-scheduling. It is the candidates' responsibility to make sure that they know the correct date, time and venue of each examination as given in the final copy of the examination timetable; they should not depend on information given by classmates, or information communicated by telephone. Misreading the timetable is not an acceptable excuse for missing an examination. Any queries should be directed to the examination director. Candidates must bring their exam pass and valid student ID card to show to the invigilator(s) when requested to do so. Students unable to identify themselves will be barred from writing the examination. Candidates must see to it that the invigilator duly signs the exam pass. Candidates must also sign the exam attendance list as appropriate. On entering the examination venue, candidates must find their desks and be seated as quickly as possible, and await further instructions from the Invigilator or examiner.



- 4. Writing Examinations:** The following are some of the rules that apply to examinations:
- Candidates are not admitted into the examination room thirty (30) minutes after the start of an examination.
  - During the first 30 minutes of the final examination, examinees are not allowed to leave the examination room.
  - Answer booklets, graph paper, and any other essential reference materials are provided in the exam hall.
  - Candidates are expected to bring their own supplies like pens, pencils, rulers, un-programmed calculators, rubbers, etc. No borrowing is allowed in the examination room.
  - A blue/black ink pen (not red) should be used for all examinations.
  - Unauthorized materials - such as bags, briefcases, parcels, or other such items are not allowed into the examination room.
  - Non-programmable electronic calculators are allowed provided they are checked and cleared by the invigilator/examiner before the start of the examination.
  - Telephones, ipods, or any other unauthorized electronic device are strictly not allowed in the examination room.
  - For exams in the laboratory, candidates must hand in to an invigilator their laboratory notebooks, which are retained for inspection by the university examiners.
- 5. Failure to Sit for Examinations:** Candidates who fail to attend an examination must notify the Registrar immediately and confirm the absence with an explanation in writing. A written evidence must be submitted to the Registrar within 7 days of the examination missed. The university does not accept any excuses for absences that are not properly substantiated and authenticated.
- 6. Oral Examination:** Oral examination is possible in order to clarify or probe further aspects relating to the written examination. Candidates are reminded that the examiners may require them to attend an oral examination after the written examination.
- 7. Examination Appeal:** Candidates who are required to withdraw or discontinue as a result of failure in an examination have the right to appeal against this decision. But this must be done within 21 days after the publication of the examination results. Candidates whose names do not appear on the result list, or who do not receive formal notification of the results in the usual time, should immediately contact the Registrar to establish the reason.
- 8. Examination Remarking:** Students who want to request a remarking of an examination script should do the following:
- Obtain approval from the Head of the Department.
  - Pay the required remarking fee; and
  - Submit the application for remarking to the Head of the Department.
  - Lecturers should submit final examination scripts to their respective departments and keep the back up of grades for future reference. After three years, the Senate may instruct the department to destroy the scripts.
- 9. Repeating an Exam:** A Supplementary or Retake Exam is allowed for students who failed the final exam, but must have scored a minimum of 25 over 50 in the



coursework. The student may obtain a request form from the Registrar's Office, fills it out and supplies copies to the Business Office, academic department, and the Examination Office. The exam is processed at a fee. The maximum grade for a supplementary grade is a D (plain). Any failed course must be cleared within one academic year or else a student must repeat the course.

**10. Challenge Examination:** This is an examination designed for those students who have taken introductory courses to which they have been exposed at acceptable level. A challenge examination will not be given for a failed or repeated course. No more than 6-8 credits can be earned through challenge examinations. The procedure for requesting for a challenge examination is as follows:

- The student puts the request in writing to the head of department to see they qualify for a challenge examination.
- The head of department will then present the student's request to the Senate for approval.
- A letter of approval or denial will be sent to the student with copies to the department chairperson, business manager and the lecturer who will set the examination (in case of approval).
- A student will then obtain a challenge examination form from the Registrar's Office, fill it, and pay the challenge examination fee, which is 75% of the tuition fee of the course. The fee shall be cleared before the examination is taken.

### Academic Dishonesty

Bugema University expects integrity, including academic honesty, from all members of the university community. Therefore, all forms of academic dishonesty are prohibited. This includes, but is not limited to, plagiarism, cheating, misrepresentation, and other forms of academic misconduct.

**1. Plagiarism:** Plagiarism can be either intentional or unintentional. Intentional plagiarism occurs when students present the words, ideas, or data of someone else - including information from electronic sources - as their own. Unintentional plagiarism can occur when students present another person's words, ideas, or data - including those from electronic sources - without proper documentation.

Examples of plagiarism include the following:

- Submitting, for evaluation, an essay, written by someone else as if it were one's own text.
- Submitting, for evaluation, an essay written in part by someone else as if the entire essay were one's own work.
- Paraphrasing or summarizing words, ideas, or data without properly documenting the source of that information.
- Buying essays or assignments and submitting them as one's own work.
- Two or more students submitting the same coursework to a specific lecturer for evaluation, copying from one another or from a similar source.
- Submitting, for evaluation, the same essay or assignment in more than one course without the permission of both instructors.

Students' research papers, thesis, mini-thesis, or any submitted research requirement should comply with the 25% plagiarism policy. No research work will be accepted which exceeds the 25% level of plagiarism.

## 2. **Cheating**

Cheating occurs when students pretend to have a level of competence they do not possess. Examples of cheating include the following:

- Copying from another person's work during an examination or while completing an assignment.
- Using a "cheat sheet" or any other memory or skill aid without permission during an examination or while completing an assignment.
- Collaborating on an examination or assignment without permission
- Impersonation. A form of cheating where one person sits for another in an examination pretending to be the actual registered student, or doing assignments and exams for in place of another person.

## 3. **Misrepresentation**

Misrepresentation occurs when students fabricate a source of information or distort information from sources. Examples of misrepresentation include the following:

- Documenting or referring to a source that does not exist.
- Attributing incorrect or non-existent information to an existing source.

## 4. **Academic Misconduct**

Academic misconduct occurs when students commit academically dishonest acts other than plagiarism, cheating, and misrepresentation. Examples of academic misconduct include the following:

- Being a party to any act of plagiarism, cheating, misrepresentation, or academic misconduct (i.e. selling term papers, permitting someone to copy one's work, writing essays for someone else, etc).
- Attempting to gain or gaining an unfair advantage over other students by offering services or materials in exchange for favorable considerations.
- Changing or altering grades on essays, examinations, or assignments.
- Changing or altering grades on official documents, electronic or otherwise.
- Any act associated with obtaining and sharing examinations or answers to examinations before the examinations are given.
- Theft or unauthorized use of library materials.
- Copyright infringement of published materials, including print, recordings, video or internet media.

**Note:** Penalties for Academic dishonesty will apply as in the Examination Policy Handbook.

## **Academic Grievances**

All academic grievances should be resolved at the lowest possible level. In the case of a grievance relating to a particular class, students should first try to resolve the issue with the course instructor, then where applicable, the Heads of Departments, and then the Dean of School. Any concern that cannot be resolved at the level of the Dean of school or Registrar should be referred to the Senate.

## **Academic Probations**

A student who fails to obtain a GPA of 2.00 in a semester is given a warning letter. If the student fails to obtain a GPA of 2.00 for two consecutive semesters, the student shall be given academic probation (suspension) for one academic year. If the student fails to obtain a GPA of 2.00 even after the academic probation, then the studies of the student at Bugema University shall be terminated.

## **Graduation**

Graduation is held once a year at Bugema University main campus. Due to the flexibility of the system and the nature of the courses offered, it is possible for a student to take more than the required duration to complete all the requirements for graduation. Depending on the class load taken each semester, and on the student's academic performance, a student may complete his/her course requirements at the end of first, second, or summer semester. Whenever a student completes all the requirements, the university will issue a letter of completion and partial transcript before graduation.

## **Collection of Certificates and Transcripts**

Certificates are expected to be ready for collection one month after graduation. Graduates will be expected to collect their documents personally within one year from the day of graduation. Beyond one year the uncollected documents will attract a surcharge of \$2.0 per month that will accumulate every year and will have to be paid before the documents are released. All previous uncollected documents shall also be charged the same rate from the time this policy comes into effect. Any person who may wish to keep his/her academic or any other documents for safe custody at the Registrar's Office after official collection will pay \$1.0 per month. In the event where the uncollected documents require reprint or corrections, this policy mandates the officers at post to endorse them.

## **General Requirement for Graduation**

The general requirements that apply to the various programs may be summarized as follows:

- A major, a minor and a cognate (for some courses),
- General education courses as outlined in the general education section.
- Grade-Point Average (GPA) requirements are as follows.

Grades of less than D will not be accepted in any category for graduation. A minimum GPA of 2.25 is required for a major and 2.0 for a minor. A cumulative average GPA of 2.0 or an average of D on the entire sequence, and a minimum of credit load as stipulated in each program.

Before a student participates in the graduation exercises and receives his/her certificate, the following must be met:

- Should complete all relevant requirements for the program of study.
- Have an original or certified transcript of any transfer credit submitted to the Registrar's Office before or at the time of graduation clearance.
- Should be cleared from all service departments.

## **Graduation in Absentia**

Candidates for graduation must be present at the convocation to receive their certificates unless they apply in writing to the Deputy Vice-Chancellor - Academics for permission to graduate in absentia. The application must be submitted at least three weeks before the convocation. It should include the reason for the request, and the appropriate fee. Permission will be granted only in cases of obvious necessity.

The procedure for application to graduate in absentia is as follows:

- Apply to the Deputy Vice-Chancellor - Academics with genuine reasons.
- The student must have fulfilled all requirements for graduation including payment of graduation fee.

Permission to graduate in absentia will not be granted when the student is on campus.

### **The Senate**

The Senate is responsible for all academic policies, dates, programs, courses and all other matters pertaining to academics. The committee also acts on appeals and requests from students regarding their academic issues. Such issues may include conflict resolutions between students and lecturers, the granting of exemptions to academic policies, or graduation requirements.

## FINANCIAL INFORMATION

### Fees

Bugema University's fees are competitive and are determined by the number of academic hours taken and other services provided by the university, such as boarding, library, medical, etc.

The fees structure is subject to change. However, it cannot change within the academic year.

The total amount to be charged to every student is computed by using the academic fees structure approved by the University Council. The copies of fees structures of different courses are available in the Registrar's Office and Business Office of the university and are given free of charge on request.

### Payments

All fees must be paid in any of the bank accounts of the university given below before registration. Bank charges for the other banks vary depending on their internal policies. The deposit slip must be presented to the receiving cashier within the month of the deposit.

Currently the following are the university account numbers in various banks:

- Standard Chartered Bank-Kenya 0102009067700
- Eco Bank Kenya 6580005932
- Standard Chartered Bank-Uganda 0102010609600
- Standard Chartered Bank-Uganda (Forex) 8702010609600
- Bank of Africa (former Allied Bank) 200122003
- Centenary Rural Development Bank 3510621398
- Barclays Bank – Uganda 1067030

### Refunds

The refund rules apply when a student makes changes in course load, withdraws, drops out, takes an unapproved leave of absence, fails to return from an approved leave of absence, is expelled, or otherwise fails to complete the period of enrollment for which he or she was charged.

The effective date for refunds of tuition or payments is made according to the date the student notifies the university and completes the withdrawal form. If the student fails to officially withdraw or appropriately notify the university, the last recorded date of class attended by the student, documented by the university, will be the effective date.

Institutional charges (tuition and fees, room and board) are refunded based on the total semester charges appropriately as follows for drop/withdrawal:

Week 1	80% (any time after registration)
Week 2	70%
Week 3 - 4	60%
Week 5	50%
Week 5+	0% (No refund)

The university runs some summer/holiday programs. Tuition and fees refunded, based on total charges for the mini-summer, holiday classes and summer term, are as follows for drop/withdrawal:

First 2 class days	80% (any time after registration)
Next 4 class days	10% less each day
After 5 class days	0% (No refund)

### **Late Fees**

Continuing students who report for registration after the last day of normal registration and before closure of registration are charged a late fee. The late fee increases for each day the student is late to a maximum limit. Late fees are meant to encourage students to arrive early, complete registration and begin classes on time.

### **Postdated and Unpaid Cheques**

Postdated cheques are not acceptable. No student presenting a postdated cheque will be financially cleared.

Cases related to bounced cheques or unpaid cheques are to be treated in compliance with banks and other government regulations in place.

### **General Financial Matters**

If a student neglects or refuses to pay amounts owed to the university, the Administrative Board deserves the right to withhold any or all registration materials, student examination results, transcripts, or diplomas until the student settles the amount with the university. Such fees include tuition, room and board charges, library fines, book costs, damage costs, and other legitimate charges.

**Breakage or Damage:** Students are held responsible for the cost of any breakage or damage which they may cause.

**Personal Effects:** Students should ensure that personal effects are covered by insurance. The university accepts no liability for loss or damage by any cause.

## ACADEMIC PROGRAMS

### Higher Education Certificate (HEC) Program

This programme is intended for students from countries whose secondary school qualifications are not considered equivalent to Uganda Advanced Certificate of Education (UACE) but permit admission into higher education in those countries. Such students must apply and enroll for HEC and pass before they are re-admitted for degree or diploma programmes depending on the level of their performance. Students who have successfully completed the UACE or its equivalent but who may not have attained sufficient grades to enroll for Diploma or Degree programmes may opt to enroll for HEC to qualify for the programmes. The minimum admission requirements for HEC are as follow:

1. UACE with at least two subsidiary passes or its equivalent. At least one of the subsidiary pass shall be from a principal subject. For avoidance of doubt, a holder of UACE with only one principal pass shall be deemed to meet the admission requirements.
2. Vocational Qualifications at level 2 or level 3 of the Uganda Vocational Qualifications Framework.
3. Qualifications equivalent to Uganda Advanced Certificate of Education (UACE) as shall be determined by the NCHE in consultation with the Uganda National Examinations Board
4. An ordinary certificate from an institution recognized by NCHE.
5. Students whose foreign secondary school qualifications are not considered equivalent to UACE but permit admission into Higher Education in the foreign country. Such students shall have passed at least five subjects with a minimum overall grade of C (equivalently a Ugandan credit 5).

HEC at Bugema University is divided into three categories. A student in consultation with the Head of Department, should choose the appropriate category relevant for the intended program that will be taken there after. The HEC categories are as follow:

1. HEC (Arts) – intended for students who will pursue Humanities, Business, Arts Education and Theological studies.
2. HEC (Physical Sciences) – intended for students who will pursue Computing, Technonogy, Statistics, Biomedical Engineering and Science Education.
3. HEC (Biological Studies) – intended for students who will pursue Nursing, Food Technology/Science, Environmental, Biochemistry, Agribusiness and Agricultural courses.

**Note:** Whereas a student who completes HECP/HECB may be allowed to do courses intended for HECA, the vice versa will not apply.

## HIGHER EDUCATION CERTIFICATE FOR ARTS (HECA)

*(Hosted by the School of Education)*

### Program Credit Requirement Summary

Concentration in Arts	35
Concentration in Sciences	07
<b>Total</b>	<b>42</b>

### Course Distribution by Semester

#### First Semester

Code	Title	CR
HECA 1101	English Grammar and Composition	3
HECA 1102	Survey of the Bible	3
HECA 1103	Computing Skills	3
HECA 1104	Bible Ancestry	2
HECA 1105	Economics	3
HECA 1106	Introduction to Community Dialogue	3
HECP 1101	Foundational Mathematics 1	4
<b>Total</b>		<b>21</b>

#### Second Semester

Code	Title	CR
HECA 1201	Entrepreneurship Skills	3
HECA 1202	Study Skills for Academic Life	3
HECA 1203	Introduction to Development Studies	3
HECA 1204	Communication Skills	3
HECA 1205	Introduction to Social Cultural Issues in Africa	3
HECA 1206	Risk Management	3
HECB 1203	Environmental Studies	3
<b>Total</b>		<b>21</b>

## HIGHER EDUCATION CERTIFICATE FOR BIOLOGICAL SCIENCES (HECB)

*(Hosted by the School of Natural Sciences)*

### Program Credit Requirement Summary

<b>Course Category</b>	<b>CU</b>
Major concentration in Sciences	26
Major concentration in Arts	12
<b>Total</b>	<b>38</b>

### Course Distribution per Semester

#### First Semester

Course Code	Course Title	CU
HECP 1101	Foundation Mathematics 1	4
HECB 1102	Foundation Biology I	4
HECB 1103	Foundation Chemistry I	4
HECA 1101	English grammar & composition	3
HECA 1103	Computing Skills	3
<b>Total</b>		<b>18</b>



**Second Semester**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
HECB 1201	Foundation Chemistry II	4
HECB 1202	Foundation Biology II	4
HECB 1203	Environmental studies	3
HECB 1204	Life Skills Education	3
HECA 1203	Introduction to Development Studies	3
HECA 1204	Communication and Study Skills	3
<b>Total</b>		<b>20</b>

## **HIGHER EDUCATION CERTIFICATE FOR PHYSICAL SCIENCES (HECP)**

*(Hosted by the School of Natural Sciences)*

**Program Credit Requirement Summary**

<b>Course Category</b>	<b>CU</b>
Major concentration in Sciences	22
Major concentration in Biological Sciences	06
Major concentration in Arts	12
<b>Total</b>	<b>40</b>

**Course Distribution per Semester****First Semester**

<b>Code</b>	<b>Course title</b>	<b>CU</b>
HECP 1101	Foundation Mathematics I	4
HECP 1102	Foundation Physics I	4
HECP 1104	Get connected	3
HECP 1105	Network Basics	3
HECA 1103	Computing Skills	3
HECA 1101	English Grammar & Composition	3
<b>Total</b>		<b>20</b>

**Second Semester**

<b>Code</b>	<b>Course title</b>	<b>CU</b>
HECP 1201	Foundation Mathematics II	4
HECP 1202	Foundation Physics II	4
HECB 1203	Environmental Studies	3
HECB 1204	Life Skills Education	3
HECA 1203	Introduction to Development Studies	3
HECA 1104	Communication and Study Skills	3
<b>Total</b>		<b>20</b>

## HIGHER EDUCATION CERTIFICATE COURSE DESCRIPTIONS

### **HECA 1011 English Grammar and Composition**

This course enables students to further develop and understand common English usage and acquire the ability to express themselves fluently. Students are introduced to word English classes and their functionality in syntactic structures. This will enable them to write various types of essays. The course will also involve conversational English, various levels of English (spoken, written, slang, colloquial, etc), spelling and pronunciation. It also involves basic understanding of English grammar and developing reading and writing skills.

### **HECA 1102 Survey of the Bible**

The course deals with describing the main parts of the Old and New Testament canons and the principles of their formation. The course will cover the social and theological world in which the Old and New Testaments as we have them today were constructed.

### **HECA 1103 Computing Skills**

The aim of course is to develop the necessary skills in the use of information technology, mainly in software applications and Internet searching and browsing. These skills are crucial in helping students to complete assignments, produce professional presentations and achieve success in the workplace.

### **HECA 1104 Bible Ancestry**

Bible Ancestry handles a study of the historical development of the Bible from the "original" manuscripts to the modern English translations. The emphasis will be put on transmission, canonization textual criticism and the major ancient versions.

### **HECA 1105 Economics**

This is a bridging course and is an introduction to the basic tools, principles and concepts of Micro and Macro- economics. The first part focuses on microeconomic issues such as supply and demand, theories of the firm and individual behavior, competition, monopoly, markets and income distribution. The later part of the course focuses on macro-economic issues such as national income, employment, inflation, money, banking and monetary policy, market systems and circular flow analysis, fiscal policy, interest rates, etc.

### **HECA 1106 Introduction to Community Dialogue**

The course covers the historical evolution, linking community dialogue to participatory approaches, communication trends, community dialogue in the context of human rights based approach to programming, steps and processes of operationalizing, coordination and tools of community dialogue, organizing and managing, monitoring and evaluation of community dialogue.

### **HECA 1201 Entrepreneurship Skills**

This is a bridging course and is an introduction to the key concepts and skill requirements for new business creation, evaluate the business skills and commitment necessary to successfully operate an entrepreneurial venture, evaluation of personal entrepreneurial skills putting emphasis on identifying viable business opportunities and the process of planning for new venture start-up. Students will learn about themselves, their decisions, and their goals to determine how entrepreneurship can play a role in their lives. Topics to be covered include: the importance/role of entrepreneurship, entrepreneurial mind set, personality characteristics of successful entrepreneurs, individual assessment of interests, skills, and personality traits, entrepreneurship, is entrepreneurship fit for you?, social

entrepreneurship, small businesses, family businesses, home-based businesses, brain storming new business ideas, business idea creation and screening, market research, franchising or purchase of existing businesses, core elements of a business plan, sources of start-up capital, sources of business advice for entrepreneurs, the entrepreneur leader strategies for growth and global expansion, critical success factors, etc.

### **HECA 1202 Study Skills for Academic Life**

When students enter university, they need the self-knowledge and academic skills to meet the challenges of university life and work. This course helps students develop effective strategies and practical skills needed in academic performance. The course also shows students how to create and use study systems, think critically, concentrate, read with understanding and manage their learning to achieve the outcome they want. In brief, this course aids students to learn how to learn so that they can take control of their learning processes.

### **HECA 1203 Introduction to Development Studies**

The aim of course is to introduce learners to elementary issues in development studies focusing on development modules, development pathways, challenges to development. It also looks at political economy, linkages between politics, foreign aid, conflicts and development

### **HECA 1204 Communication Skills**

This is a foundational course that teaches the basics of good writing and communication skills. Students learn how to write grammatically-correct reports and focus on the interactive processes of transmitting and or exchanging messages, information and/or understanding within individuals, groups, and organizations. The course examines the factors and circumstances that influence the flow and impact of messages, information, and understanding among individuals, groups and organizations. The course will also equip students with critical thinking and problem solving skills.

### **HECA 1205 Introduction to Social Cultural Issues in Africa**

The aim of this course is for students to know the social-cultural aspects of Africa in order to help gospel workers reach the unreached people. The course will introduce students to different issues of people in Africa. Some of the major topics to be covered include cultural diversity (what culture is and component of culture), marriage and family issues, among others.

### **HECA 1206 Risk Management**

This course examines the way in which business and society assess, control and transfer risks. The process known as risk management process involves the identification of risks and associated potential costs, analysis of causes of risk of financial loss, determination of the various strategies to treat risks, selection of strategies appropriate to the goals and objectives of business, implementation of the selected strategies, management and monitoring of risks.

### **HECB 1102 Foundation Biology I (4 CU)**

This first part of the foundation biology is an introductory course that covers the particulars of cell and tissue biology. A number of topics will be explored. These include prokaryotic and eukaryotic cell structure and function, organelles, biological membranes, cell division mitosis and meiosis, transport across membranes, and tissue types. There will be an introduction to genetics and an introduction to evolution. Students will benefit from a blended mix of taught classes, laboratory practicals, and independent

study. Laboratory sessions are expected to reinforce theory and instill sound laboratory practices. Practicals should enable students to increase their competence in numeracy, ICT, communication, teamwork and independent learning skills.

#### **HECB 1103 Foundation Chemistry I (4 CU)**

Chemistry is the science of everyday life. The subject enables us to explain properties of substances, their structures and the changes they undergo. Consequently, chemistry is a pivotal subject in the study of biological sciences. The course allows students to see the application of Chemistry to a number of science-based disciplines. The first course covers a wide range of fundamental concepts in physical chemistry including: atomic and nuclear structure, bonding and structure, energetics, thermodynamics, kinetics, equilibrium, acids and bases and redox reactions and also provides a brief introduction to inorganic chemistry.

#### **HECB 1201 Foundation Chemistry II (4 CU)**

Chemistry is the science of everyday life. The subject enables us to explain properties of substances, their structures and the changes they undergo. Consequently, chemistry is a pivotal subject in the study of biological sciences. The course allows students to see the application of Chemistry to a number of science-based disciplines. This second course in Foundation Chemistry covers a wide range of fundamental concepts in Organic Chemistry and also provides an introduction to analytical techniques that are used to investigate organic compounds. The course will be delivered through a combination of theoretical lectures, problem-solving tutorials and laboratory-based practicals. Laboratory sessions are expected to reinforce theory and also instill sound laboratory practices. Practicals should enable students to increase their competence in numeracy, ICT, communication, teamwork and independent learning skills.

#### **HECB 1202 Foundation Biology II (4 CU)**

This second foundation course in biology is designed to provide introduction to the biological sciences, through the study of basic biochemistry, selected body systems, ecology and reproduction. It also introduces some of the relevant tools and techniques used in modern biology. Through this course, learners will appreciate that the study and practice of biology are affected and limited by many factors including social, economic, technological, and ethical as well as cultural factors. They will be suitably prepared for further studies in biological sciences. The course will be delivered through a combination of theoretical lectures, problem-solving tutorials and laboratory-based practicals. Laboratory sessions will be included to enable students increase their competence in numeracy, ICT, communication, teamwork and independent learning skills.

#### **HECB 1203 Environmental Studies (3 CU)**

The course will look at what the environment is, relating it to the physical and biological sciences, social sciences and humanities. Major focus will be on, air pollution and regulation, and air quality and atmospheric science, water pollution and causes, including the water cycle. Other water issues such as droughts and water scarcity, floods, dams and water diversion will be covered. Next, it will look at waste and recycling, toxic waste, toxins and toxicity, deforestation and afforestation, agriculture and food, including challenges involved. Finally, it will focus on global warming with emphasis on causes and the issues of politics, economics and the environment. Environmental impact assessment (EIA) will be covered.

### **HECB 1204 Life Skills Education (3 CU)**

The host of factors that promote high-risk behaviour such as alcoholism, drug abuse, and casual relationships are boredom, rebellion, disorientation, peer pressure and curiosity. The psychological push factors such as the inability to tackle emotional pain, conflicts, frustrations, and anxieties about the future are often the driving force for high-risk behaviour. Life skills training is an efficacious tool for empowering the youth to act responsibly, take initiative and take control. It is based on the assumption that when young people are able to rise above emotional impasses arising from daily conflicts, entangled relationships, and peer pressure, they are less likely to resort to anti-social or high-risk behaviours.

### **HECP 1101 Foundation Mathematics I (4 CU)**

This course will give students an understanding of aspects of Mathematics that are needed in a wide range of applications. The course is designed to allow students to develop competence in a range of mathematical and statistical techniques, which they can then apply within a range of scientific contexts. The module reinforces basic mathematical concepts and is accessible to students with a wide range of previous mathematical experiences. The structure and programme of delivery is specifically designed to support the other courses within the Higher Education Certificate programme and beyond.

### **HECP 1102 Foundation Physics I (4 CU)**

This course will provide students with an in-depth introduction to Newtonian Mechanics and properties of matter. The course will be delivered through a combination of theoretical lectures, problem-solving tutorials and laboratory-based practicals. Laboratory sessions are expected to reinforce theory and instill sound laboratory practices. Practical should enable students to increase their competence in numeracy, ICT, communication, teamwork and independent learning skills.

### **HECP 1103 Computing Skills (3 CU)**

The aim of course is to develop the necessary skills in the use of information technology, mainly in software applications and Internet searching and browsing. These skills are crucial in helping students to complete assignments, produce professional presentations and achieve success in the workplace. The basic concepts of information technology and computing and use of computer will be emphasized.

### **HECP 1104 Get Connected**

This course will be taught based on a blended content to introduce students to digital world. The digital world is upon us both personally and professionally. Students will be taught to have a better understanding of the Internet, computers and social media which will be a big help toward acquiring digital skills. With these skills students will more opportunities and possibilities opened for them individually as far as career advancement. Areas to be considered will not be limited to using a computer, connect devices and access search, email, and social media. This course content is very user-friendly and interactive with lots of illustrations. No previous knowledge is needed for this introductory course.

### **HECP 1105 Network Basics**

This course introduces students to a blended learning. Networking is the major concepts that gets devices connected. Although often unseen, it enables user to stay connected on any given network as they move around freely using our laptop or smartphone. This

course teaches the basic networking concepts and the skills that you can put to use right away. Its underlying principles will help students to set-up a SOHO (small-office/home-office) networks and put students on the path to managing a larger-scale business network.

#### **HECP 1201 Foundation Mathematics II (4 CU)**

This second foundation course in Mathematics consists of two parts: an introduction to multivariate calculus and an introduction to statistics. The mathematical part develops the mathematical skills required for mathematical modelling of systems involving more than one independent variable. The statistics part is an introduction to descriptive statistics, probability and statistical inference. The course places strong emphasis on developing a clear theoretical understanding of various analytical tools as well as an appreciation of the application of mathematics and statistics to different contexts. These skills and competencies provide a foundation for professional practice and for further study in the many different undergraduate fields.

#### **HECP 1102 Foundation Physics II (4 CU)**

This course will provide students with an in-depth introduction to electromagnetism, atomic and nuclear physics as well as an introduction to optical physics. The course will be delivered through a combination of theoretical lectures, problem-solving tutorials and laboratory-based practicals. Laboratory sessions are expected to reinforce theory and instill sound laboratory practices. Practical should enable students to increase their competence in numeracy, ICT, communication, teamwork and independent learning skills.

## GENERAL EDUCATION COURSES (GEC)

### Introduction

The rapid expansion of knowledge requires that those who would be truly educated adopt a philosophy of life-long learning. One must engage the mind in the study of many fields. Bugema University offers a broad encounter with knowledge that touched the diversity of academic studies in our General Education requirements. Thus, the General Education program encourages students to reach beyond merely acquiring the skills and current knowledge of ones chosen field. Although the faculty of Bugema University deeply respects in-depth learning and academic achievement in ones chosen field, we consider another goal equally essential. That is the goal of producing Christian alumni notable for their culture, character, and breadth of intellect interests and abilities that can be applied toward both leadership and service to God, country, and humanity.

### Objectives

General Education is more than simply completing a series of requirements. The faculty desires that undergraduates go beyond the study of their chosen discipline to focus on developing spiritual strength values, and social abilities. In Bugema University's Mission Statement, true education involves the harmonious development of the physical, mental, social, and spiritual faculties. A graduate of Bugema University will not only perform superbly in their chosen careers, but also face the realities and challenges of life efficiently and have a richer education. The General Education program seeks of the foster achievement of the following seven objectives in each student.

- Religion- From a study of faith, ethics and doctrine, students will gain an experiential understanding of God's divine plan for their lives.
- Health – Students will apply the principle of healthful living, nutrition and fitness to their personal lives.
- Computer Skills- Through practice and familiarity, students will develop basic skills in computer work so that they are able to function effectively in a modern office.
- Writing Skills- Through study and practice, students will develop strategies for effective written communication.
- Science and Math- Students will gain knowledge or even personal experience in the dynamic nature of scientific investigation as a way of understanding the natural world, or a strong basic knowledge of Mathematics.
- Social Awareness- Students will come to understand the human condition as manifested in social, geographic, political, or Economic relationship.
- Vocational Studies-Through hands on practice, students will develop practical vocational skills that will foster personal development and versatility in the real world.

Each student will satisfy the General Education requirement by taking at least one course in each of seven areas. Some degree programs are more interdisciplinary than others, consequently some students will find that their program satisfies more of the General Education requirements than others. Among the courses offered for each program in each department, you will find a table describing which General Education requirements are satisfied by your program and which requirements you will satisfy from the list of approved General Education courses below:

**Approved General Education Courses (21 Hours)**

GECR	1101	Christian Beliefs	3
GECH	1101	Health Principles	3
GECC	1101	Fundamentals of Computer & Office Applications	4
GECL	1101	Introduction to Writing Skills	3
GECS	1201	Issues in Science and Religion	3
GECS	1202	Statistics	3
GECA	1201	Philosophy of Christian Education	3
GECA	1202	Principles of Sociology	3
GECV	1201	Motor Vehicle Driving	2
GECV	1202	Tailoring	2
GECV	1203	Catering	2
GECV	1204	Music Appreciation	2
GECV	1205	Computer Repair	2

**General Education in the Diploma and Certificate Programs**

Diploma and Certificate students must take the following General Education courses, which are transferable to the degree at Bugema University.

GECR	1101	Christian Beliefs	3
GECH	1101	Health Principles	3
GECC	1101	Fundamentals of Computer and Office Applications	4
GECL	1101	Introduction to Writing Skills	3

Some of the above courses may already be part of the diploma or certificate program. In which case the GEC requirement is met by the program.



# **SCHOOL OF BUSINESS (SOB)**

## SCHOOL OF BUSINESS

**Dean, Dr. Atandi Fred;** PhD Entrepreneurship 2017 Jomo Kenyatta University of Agriculture & Technology; MBA ( Entrepreneurship) 2010 Kenyatta University; Bachelor of Arts in Management 1996 Moi University.

### Preamble

The School of Business believes in integrity and excellence in business dealings. It is therefore dedicated to the education and development of individuals in the region and beyond. These will become business leaders of both private and public organizations through outstanding business oriented research, instruction, and service. Therefore, the school endeavours to train and produce human resources that are not only professionals but also morally upright.

### Goal

The goal of the School of Business is to train efficient and effective future professionals who integrate integrity and sound business and organizational functions and who are able to combine knowledge with analytical and practical skills in order to accurately define problems, find viable solutions, and implement desirable decisions.

Departments

### The School of Business consists of the following two departments:

1. Department of Accounting and Finance
2. Department of Management

### Entrance Requirements

To qualify for entrance in the School of Business on a degree program, a candidate must fulfil the general admission requirements of Bugema University and must also meet specific entrance requirements as stipulated in the selected department.

Graduation Requirements

1. To be eligible for graduation from the School of Business, students are required to have successfully completed the required semester credits in each program ranging from:
  - 120 – 140 for a three-year degree program
  - 21 semester credits for minor programs;
  - 79 semester credit hours for diploma programs
  - 36 semester credits for a certificate
2. For more information, as per the exact requirements, see the details given for every program in each department.
3. A minimum 270 hours (12 continuous weeks of 8 hours a day) of Industrial Attachment in an acceptable and relevant established company. The student must have at least a grade of B in Industrial Attachment.

## DEPARTMENT OF ACCOUNTING AND FINANCE

**Head of Department:** Zipporah Mupaghasi MBA Accounting Solusi University Zimbabwe, BBA Accounting, Bugema University: Uganda.

**Vision:** The Department Envisions Excellence in Business Accounting and Financial Performance.

### Objectives

The objectives of the Department are:

- To address the needs of the public and private sectors by producing graduates equipped with practical accounting, finance and management skills;
- To prepare students for graduate and professional studies;
- To develop students' analytical, inductive, adaptive and communication skills.
- To imbue students with Christian values and ethics.

### Programs Offered

- Bachelor of Business Administration in Accounting
- Bachelor of Business Administration in Insurance
- Bachelor of Science in Accounting
- Bachelor of Science in Finance and Banking
- Minor in Accounting (Bachelor of Business Administration)
- Minor in Insurance
- Minor in Accounting (Bachelor of Science)
- Minor in Finance and Banking
- Diploma in Accounting

### Entrance Requirements

In addition to meeting the university entrance requirements (2 principal passes), a pass in English and Mathematics at O-level or its equivalent or passing a placement test, are required to pursue a bachelor of business administration. For a Bachelor of Science, a credit in English and Mathematics is a necessity. The Department also accepts students with accounting and finance professional qualifications and related work experience.

### Interdepartmental Transfer

Students wishing to transfer from other Departments to the Department of Accounting and Finance Department for any of the programs listed above have and have not met the Department's entry requirements must have an average of D (above 50%) in BMAT 1101: Business Algebra and Calculus, GECS 1202: Statistics and GECL 1101: Introduction to Writing Skills of Bugema University.

### Business Exposure and Application

Students registered in this department will have an opportunity to gain from the following activities:

- Accounting and Finance practical experience;
- Hands-on computer accounting packages;
- Integrative skills development in cognate requirements;
- Work education experience;
- Seminars and workshops and other accounting, insurance and finance activities arranged by the departmental clubs;
- Field trips and field work;
- Research.

**BACHELOR OF BUSINESS ADMINISTRATION IN ACCOUNTING****Degree Requirement Summary**

<b>Course Category</b>	<b>Credits</b>
General Courses Requirements	21
Major Concentration	52
Cognate Requirements	30
Electives	09
Research	06
Industrial Attachment	06
<b>Total</b>	<b>124</b>

**General Courses**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECA 1202	Principles of Sociology	30	30	00	45	3
GECC 1101	Fundamentals of Computers and Office Applications	45	00	30	60	4
GECH 1101	Health Principles	30	30	00	45	3
GECL 1101	Introduction to Writing Skills	30	30	00	45	3
GECS 1202	Statistics	30	30	00	45	3
GECV 1201	Motor Vehicle Driving	15	00	30	30	2
GEGR 1101	Christian Beliefs	30	30	00	45	3
<b>Total</b>						<b>21</b>

**Major Concentration**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BACC 1101	Fundamentals of Accounting I	45	30	00	60	4
BACC 1202	Fundamentals of Accounting II	45	30	00	60	4
BACC 2103	Intermediate Accounting I	45	30	00	60	4
BACC 2104	Management Accounting I	30	30	00	45	3
BACC 2105	Taxation I	30	30	00	45	3
BACC 2206	Intermediate Accounting II	45	30	00	60	4
BACC 2207	Management Accounting II	30	30	00	45	3
BACC 2209	Ethics and Corporate Governance	30	30	00	45	3
BACC 3111	Auditing Theory and Practice	30	30	00	45	3
BACC 3113	Accounting Theory and Practice	0	0	45	60	4
BACC 3120	Advanced Accounting I	45	30	00	60	4
BACC 3221	Accounting Packages	30	30	00	45	3
BACC 3222	Advanced Accounting II	45	30	00	60	4
BFNC 2205	Financial Management	30	30	00	45	3
BMGT 3205	Production and Operations Mgt	30	30	00	45	3
<b>Total</b>						<b>52</b>

**Cognate Requirements**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BBSA 1201	Data Processing Skills	30	30	00	45	3
BBSA 2102	Mercantile Law	30	30	00	45	3
BBSA 2203	Company Law	30	30	00	45	3
BECO 1101	Microeconomics I	30	30	00	45	3
BECO 1202	Macroeconomics I	30	30	00	45	3
BESB 2101	Basic Entrepreneurship	30	00	45	45	3
BMAT 1101	Business Algebra and Calculus	30	30	00	45	3

BMGT	1201	Management and Organization	30	30	00	45	3
BMGT	3103	International Business Admin.	30	30	00	45	3
BMKT	2101	Marketing Management I	30	30	00	45	3
<b>Total</b>							<b>30</b>

**Electives (Choose at least 9 Credit Hours)**

Code	Title	LH	TH	PH	CH	CU	
BECO	2105	Monetary Economics	30	30	00	45	3
BFNC	2206	Risk and Insurance Management	30	30	00	45	3
BHRM	2209	Human Resource Management	30	30	00	45	3
BICT	3117	E-Commerce and E-Business	30	00	45	45	3
BMGT	3204	Strategic Management	30	30	00	45	3

**Research**

Code	Title	LH	TH	PH	CH	CU	
BREM	2201	Research Methods	30	30	00	45	3
BREP	3102	Research Project	00	30	90	45	3
<b>Total</b>						<b>6</b>	

**Industrial Attachment**

Code	Title	LH	TH	PH	CH	CU	
BINA	3301	Industrial Attachment	00	00	270	90	6

**Recommended Schedule for Bachelor of Business Administration in Accounting**

**First Year** **39**

**Semester 1**

Code	Title	LH	TH	PH	CH	CU	
BACC	1101	Fundamentals of Accounting I	45	30	00	60	4
BECO	1101	Microeconomics I	30	30	00	45	3
BMAT	1101	Business Algebra and Calculus	30	30	00	45	3
GECC	1101	Fundamentals of Computers and Office Applications	45	00	30	60	4
GECL	1101	Introduction to Writing Skills	30	30	00	45	3
GECR	1101	Christian Beliefs	30	30	00	45	3
<b>Total</b>						<b>20</b>	

**Semester 2**

Code	Title	LH	TH	PH	CH	CU	
BACC	1202	Fundamentals of Accounting II	45	30	00	60	4
BBSA	1201	Data Processing Skills	30	30	00	45	3
BECO	1202	Macroeconomics I	30	30	00	45	3
BMGT	1201	Management and Organization	30	30	00	45	3
GECA	1202	Principles of Sociology	30	30	00	45	3
GECS	1202	Statistics	30	30	00	45	3
<b>Total</b>						<b>19</b>	

**Second Year** **40**

**Semester 1**

Code	Title	LH	TH	PH	CH	CU	
BACC	2103	Intermediate Accounting I	45	30	00	60	4
BACC	2104	Management Accounting I	30	30	00	45	3
BACC	2105	Taxation I	30	30	00	45	3

BBSA	2102	Mercantile Law	30	30	00	45	3
BESB	2101	Basic Entrepreneurship	30	00	45	45	3
BMKT	2101	Marketing Management I	30	30	00	45	3
GECV	1201	Motor Vehicle Driving	30	00	45	45	2
<b>Total</b>							<b>21</b>

**Semester 2**

Code		Title	LH	TH	PH	CH	CU
BACC	2206	Intermediate Accounting II	45	30	00	60	4
BACC	2207	Management Accounting II	30	30	00	45	3
BACC	2209	Ethics and Corporate Governance	30	30	00	45	3
BBSA	2203	Company Law	30	30	00	45	3
BREM	2201	Research Methods	30	30	00	45	3
GECH	1101	Health Principles	30	30	00	45	3
<b>Total</b>							<b>19</b>

**Third Year****45****Semester 1**

Code		Title	LH	TH	PH	CH	CU
BACC	3111	Auditing Theory and Practice	30	30	00	45	3
BACC	3113	Accounting Theory and Practice	00	00	45	60	4
BACC	3120	Advanced Accounting I	45	30	00	60	4
BECO	2105	Monetary Economics	30	30	00	45	3
BMGT	3103	International Business Admin.	30	30	00	45	3
BREP	3102	Research Project	00	30	90	45	3
<b>Total</b>							<b>20</b>

**Semester 2**

Code		Title	LH	TH	PH	CH	CU
BACC	3221	Accounting Packages	30	00	30	45	3
BACC	3222	Advanced Accounting II	45	30	00	60	4
BFNC	2205	Financial Management	30	30	00	45	3
BFNC	2206	Risk and Insurance Management	30	30	00	45	3
BMGT	3204	Strategic Management	30	30	00	45	3
BMGT	3205	Production and Operations Mgt	30	30	00	45	3
<b>Total</b>							<b>19</b>

**Summer**

Code		Title	LH	TH	PH	CH	CU
BINA	3301	Industrial Attachment	00	00	270	90	6
<b>Total</b>							<b>6</b>

**Grand Total****124****Minor in Accounting (Bachelor of Business Administration)**

Code		Title	LH	TH	PH	CH	CU
BACC	2103	Intermediate Accounting I	45	30	00	60	4
BACC	2206	Intermediate Accounting II	45	30	00	60	4
BACC	2207	Management Accounting II	30	30	00	45	3
BACC	3111	Auditing Theory and Practice	30	30	00	45	3
BACC	3113	Accounting Theory and Practice	00	00	45	60	4
BACC	3220	Accounting Packages	30	30	00	45	3
<b>Total</b>							<b>21</b>

**BACHELOR OF BUSINESS ADMINISTRATION IN INSURANCE****Degree Requirement Summary**

<b>Course Category</b>	<b>Credits</b>
General Courses Requirements	21
Major Concentration	48
Cognate Requirements	38
Electives	06
Research	06
Industrial Attachment	06
<b>Total</b>	<b>125</b>

**General Courses**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECA 1202	Principles of Sociology	30	30	00	45	3
GECC 1101	Fundamentals of Computers and Office Applications	45	00	30	60	4
GECH 1101	Health Principles	30	30	00	45	3
GECL 1101	Introduction to Writing Skills	30	30	00	45	3
GECS 1202	Statistics	30	30	00	45	3
GECV 1201	Motor Vehicle Driving	15	00	30	30	2
GEGR 1101	Christian Beliefs	30	30	00	45	3
<b>Total</b>						<b>21</b>

**Major Concentration**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BBSA 2102	Mercantile Law	30	30	00	45	3
BBSA 2203	Company Law	30	30	00	45	3
BFNC 3108	Financial Institutions and Markets	30	30	00	45	3
BHRM 2209	Human Resource Management	30	30	00	45	3
BINS 1101	Introduction to Risk and Insurance	30	30	00	45	3
BINS 1202	Introduction to Actuarial Science	30	30	00	45	3
BINS 2103	Assurance of Persons	30	30	00	45	3
BINS 2104	Motor Insurance	30	30	00	45	3
BINS 2205	Legal Aspects of Insurance	30	30	00	45	3
BINS 2206	Property Insurance	30	30	00	45	3
BINS 3107	Re-Insurance	30	30	00	45	3
BINS 3108	Marine Insurance	30	30	00	45	3
BINS 3209	Insurance Brokerage	30	30	00	45	3
BINS 3210	Pension Insurance	30	30	00	45	3
BINS 3211	Liability Insurance	30	30	00	45	3
BMGT 3204	Strategic Management	30	30	00	45	3
<b>Total</b>						<b>48</b>

**Cognate Requirements**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BACC 1101	Fundamentals of Accounting I	45	30	00	60	4
BACC 1202	Fundamentals of Accounting II	45	30	00	60	4
BACC 3219	Accounting for Banks & Insurance Companies	30	30	00	45	3
BBAN 3210	Bancassurance	30	30	00	45	3
BBSA 1201	Data Processing Skills	30	30	00	45	3
BECO 1101	Microeconomics I	30	30	00	45	3

BECO	1202	Macroeconomics I	30	30	00	45	3
BESB	2101	Basic Entrepreneurship	30	00	45	45	3
BFNC	3107	Corporate Finance	30	30	00	45	3
BMAT	1101	Business Algebra and Calculus	30	30	00	45	3
BMGT	1201	Management and Organization	30	30	00	45	3
BMKT	1101	Marketing Management I	30	30	00	45	3
<b>Total</b>							<b>38</b>

**Electives (Choose at least 6 Credit Hours)**

Code	Title	LH	TH	PH	CH	CU	
BACC	2105	Management Accounting I	30	30	00	45	3
BECO	3113	Public Finance and Fiscal Policy	30	30	00	45	3
BFNC	2205	Financial Management	30	30	00	45	3
BICT	3117	E-Commerce and E-Business	30	00	30	45	3
BMGT	3103	International Business Admin.	30	30	00	45	3

**Research**

Code	Title	LH	TH	PH	CH	CU	
BREM	2201	Research Methods	30	30	00	45	3
BREP	3102	Research Project	00	30	90	45	3
<b>Total</b>						<b>6</b>	

**Industrial Attachment**

Code	Title	LH	TH	PH	CH	CU	
BINA	3301	Industrial Attachment	00	00	270	90	6

**Recommended Schedule for Bachelor of Business Administration in Insurance**

**First Year** **44**

**Semester 1**

Code	Title	LH	TH	PH	CH	CU	
BACC	1101	Fundamentals of Accounting I	45	30	00	60	4
BECO	1101	Microeconomics I	30	30	00	45	3
BINS	1101	Introduction to Risk and Insurance	30	30	00	45	3
BMAT	1101	Business Algebra and Calculus	30	30	00	45	3
GECC	1101	Fundamentals of Computers and Office Applications	45	00	45	60	4
GECL	1101	Introduction to Writing Skills	30	30	00	45	3
GECR	1101	Christian Beliefs	30	30	00	45	3
<b>Total</b>						<b>23</b>	

**Semester 2**

Code	Title	LH	TH	PH	CH	CU	
BACC	1202	Fundamentals of Accounting II	45	30	00	60	4
BECO	1201	Macroeconomics I	30	30	00	45	3
BINS	1202	Introduction to Actuarial Science	30	30	00	45	3
BBSA	1201	Data Processing Skills	30	30	00	45	3
BMGT	1201	Management and Organization	30	30	00	45	3
GECS	1202	Statistics	30	30	00	45	3
GECV	1201	Motor Vehicle Driving	15	00	30	30	2
<b>Total</b>						<b>21</b>	

**Second Year** **39**

**Semester 1**

Code	Title	LH	TH	PH	CH	CU	
BACC	2104	Management Accounting I	30	30	00	45	3



BESB	2101	Basic Entrepreneurship	30	00	45	45	3
BBSA	2102	Mercantile Law	30	00	45	45	3
BINS	2103	Assurance of Persons	30	30	00	45	3
BINS	2104	Motor Insurance	30	30	00	45	3
BMKT	2101	Marketing Management I	30	30	00	45	3
GECH	1101	Health Principles	30	30	00	45	3
<b>Total</b>							<b>21</b>
<b>Semester 2</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BBSA	2203	Company Law	30	30	00	45	3
BHRM	2209	Human Resource Management	30	30	00	45	3
BINS	2205	Legal Aspects of Insurance	30	30	00	45	3
BINS	2206	Property Insurance	30	30	00	45	3
BREM	2201	Research Methods	30	30	00	45	3
GECA	1202	Principles of Sociology	30	30	00	45	3
<b>Total</b>							<b>18</b>
<b>Third Year</b>							
<b>Semester 1</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BFNC	3107	Corporate Finance	30	30	00	45	3
BINS	3107	Re-Insurance	30	30	00	45	3
BINS	3108	Marine Insurance	30	30	00	45	3
BMGT	3103	International Business Admin.	30	30	00	45	3
BFNC	3108	Financial Institutions and Markets	30	30	00	45	3
BREP	3102	Research Project	00	30	90	45	3
<b>Total</b>							<b>18</b>
<b>Semester 2</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BACC	3219	Accounting for Banks & Insurance Co	30	30	00	45	3
BBAN	3210	Bancassurance	30	30	00	45	3
BINS	3209	Insurance Brokerage	30	30	00	45	3
BINS	3210	Pension Insurance	30	30	00	45	3
BINS	3211	Liability Insurance	30	30	00	45	3
BMGT	3204	Strategic Management	30	30	00	45	3
<b>Total</b>							<b>18</b>
<b>Summer</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BINA	3301	Industrial Attachment	00	00	270	90	6
<b>Grand Total</b>							<b>125</b>
<b>Minor in Insurance</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BINS	1101	Introduction to Risk and Insurance	30	30	00	45	3
BINS	2103	Assurance of Persons	30	30	00	45	3
BINS	2206	Property Insurance	30	30	00	45	3
BINS	3108	Marine Insurance	30	30	00	45	3
BINS	3210	Pension Insurance	30	30	00	45	3
BINS	3211	Liability Insurance	30	30	00	45	3
BINS	3107	Reinsurance	30	30	00	45	3
<b>Total</b>							<b>21</b>

## BACHELOR OF SCIENCE IN ACCOUNTING

### Degree Requirement Summary

Course Category	Credits
General Courses Requirements	21
Major Concentration	65
Cognate Requirements	30
Electives	06
Research	06
Industrial Attachment	06
<b>Total</b>	<b>134</b>

### General Courses

Code	Title	LH	TH	PH	CH	CU
GECA 1202	Principles of Sociology	30	30	00	45	3
GECC 1101	Funds of Computers and Office Applications	45	00	30	60	4
GECH 1101	Health Principles	30	30	00	45	3
GECL 1101	Introduction to Writing Skills	30	30	00	45	3
GECS 1202	Statistics	30	30	00	45	3
GECV 1201	Motor Vehicle Driving	15	00	30	30	2
GECR 1101	Christian Beliefs	30	30	00	45	3
<b>Total</b>						<b>21</b>

### Major Concentration

Code	Title	LH	TH	PH	CH	CU
BACC 1101	Fundamentals of Accounting I	45	30	00	60	4
BACC 1202	Fundamentals of Accounting II	45	30	00	60	4
BACC 2103	Intermediate Accounting I	45	30	00	60	4
BACC 2104	Management Accounting I	45	30	00	45	3
BACC 2105	Taxation I	30	30	00	45	3
BACC 2206	Intermediate Accounting II	45	30	00	60	4
BACC 2207	Management Accounting II	30	30	00	45	3
BACC 2208	Taxation II	30	30	00	45	3
BACC 2209	Ethics and Corporate Governance	30	30	00	45	3
BACC 3110	Financial Reporting	30	30	00	45	3
BACC 3111	Auditing Theory and Practice	30	30	00	45	3
BACC 3112	Management Accounting III	30	30	00	45	3
BACC 3113	Accounting Theory and Practice	00	00	45	60	4
BACC 3114	Advanced Taxation	30	30	00	45	3
BACC 3115	Public Sector Accounting & Reporting	30	30	00	45	3
BACC 3216	Advanced Financial Reporting	30	30	00	45	3
BACC 3217	Advanced Auditing Theory & Practice	30	30	00	45	3
BACC 3218	Forensic Accounting and Fraud Examination	30	30	00	45	3
BACC 3219	Accounting for Banks and Insurance Companies	30	30	00	45	3
BACC 3221	Accounting Packages	30	00	30	45	3
<b>Total</b>						<b>65</b>

**Cognate Requirements**

Code	Title	LH	TH	PH	CH	CU
BBSA 1201	Data Processing Skills	30	30	00	45	3
BBSA 2102	Mercantile Law	30	30	00	45	3
BBSA 2203	Company Law	30	30	00	45	3
BECO 1101	Microeconomics I	30	30	00	45	3
BECO 1202	Macroeconomics I	30	30	00	45	3
BFNC 2204	Business Finance and Investments	30	30	00	45	3
BFNC 2205	Financial Management	30	30	00	45	3
BMAT 1101	Business Algebra and Calculus	30	30	00	45	3
BMGT 1201	Management and Organization	30	30	00	45	3
BESB 2101	Basic Entrepreneurship	30	30	00	45	3
<b>Total</b>						<b>30</b>

**Electives (Choose at least 6 Credit Hours)**

Code	Title	LH	TH	PH	CH	CU
BBAN 2102	Microfinance	30	30	00	45	3
BFNC 2206	Risk and Insurance Management	30	30	00	45	3
BFNC 3108	Financial Institutions and Markets	30	30	00	45	3
BFNC 3209	Security Analysis and Portfolio Mgt	30	30	00	45	3
BHRM 2209	Human Resource Management	30	30	00	45	3
BMGT 3103	International Business Admin.	30	30	00	45	3
BMGT 3204	Strategic Management	30	30	00	45	3
BMGT 3205	Production and Operations Mgt	30	30	00	45	3

**Research**

Code	Title	LH	TH	PH	CH	CU
BREM 2201	Research Methods	30	30	00	45	3
BREP 3102	Research Project	00	30	90	45	3
<b>Total</b>						<b>6</b>

**Industrial Attachment**

Code	Title	LH	TH	PH	CH	CU
BINA 3301	Industrial Attachment	00	00	270	90	6

**Recommended Schedule for Bachelor of Science in Accounting****First Year** **44****Semester 1**

Code	Title	LH	TH	PH	CH	CU
BACC 1101	Fundamentals of Accounting I	45	30	00	60	4
BECO 1101	Microeconomics I	30	30	00	45	3
BMAT 1101	Business Algebra and Calculus	30	30	00	45	3
GECC 1101	Fundamentals of Computers and Office Applications	45	00	30	60	4
GECH 1101	Health Principles	30	30	00	45	3
GECL 1101	Introduction to Writing Skills	30	30	00	45	3
GECR 1101	Christian Beliefs	30	30	00	45	3
<b>Total</b>						<b>23</b>

**Semester 2**

Code	Title	LH	TH	PH	CH	CU
BACC 1202	Fundamentals of Accounting II	45	30	00	45	4
BBSA 1201	Data Processing Skills	30	30	00	45	3

BMGT	1201	Management and Organization	30	30	00	45	3
BECO	1202	Macroeconomics I	30	30	00	45	3
GECA	1202	Principles of Sociology	30	30	00	45	3
GECS	1202	Statistics	30	30	00	45	3
GECV	1201	Motor Vehicle Driving	15	00	30	30	2
<b>Total</b>							<b>21</b>
<b>Second Year</b>							<b>41</b>
<b>Semester 1</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BACC	2103	Intermediate Accounting I	45	30	00	60	4
BACC	2104	Management Accounting I	30	30	00	45	3
BACC	2105	Taxation I	30	30	00	45	3
BBAN	2102	Microfinance	30	30	00	45	3
BBSA	2102	Mercantile Law	30	30	00	45	3
BESB	2101	Basic Entrepreneurship	30	30	00	45	3
<b>Total</b>							<b>19</b>
<b>Semester 2</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BACC	2206	Intermediate Accounting II	45	30	00	60	4
BACC	2207	Management Accounting II	30	30	00	45	3
BACC	2208	Taxation II	30	30	00	45	3
BACC	2209	Ethics and Corporate Governance	30	30	00	45	3
BFNC	2204	Business Finance and Investments	30	30	00	45	3
BBSA	2203	Company Law	30	30	00	45	3
BREM	2201	Research Methods	30	30	00	45	3
<b>Total</b>							<b>22</b>
<b>Third Year</b>							<b>49</b>
<b>Semester 1</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BACC	3110	Financial Reporting	30	30	00	45	3
BACC	3111	Auditing Theory and Practice	30	30	00	45	3
BACC	3112	Management Accounting III	30	30	00	45	3
BACC	3113	Accounting Theory and Practice	00	00	45	60	4
BACC	3114	Advanced Taxation	30	30	00	45	3
BACC	3115	Public Sector Accounting and Reporting	30	30	00	45	3
BREP	3102	Research Project	00	30	90	45	3
<b>Total</b>							<b>22</b>
<b>Semester 2</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BACC	3216	Advanced Financial Reporting	30	30	00	45	3
BACC	3217	Advanced Auditing Theory & Practice	30	30	00	45	3
BACC	3218	Forensic Accounting and Fraud Examination	30	30	00	45	3
BACC	3219	Accounting for Banks and Insurance Companies	30	30	00	45	3
BACC	3221	Accounting Packages	30	30	00	45	3

BFNC	2205	Financial Management	30	30	00	45	3
BMGT	3204	Strategic Management	30	30	00	45	3
<b>Total</b>							<b>21</b>

**Summer**

Code		Title	LH	TH	PH	CH	CU
BINA	3301	Industrial Attachment	00	00	270	90	6
<b>Grand Total</b>							<b>134</b>

**Minor in Accounting (Bachelor of Science)**

Code		Title	LH	TH	PH	CH	CU
BACC	2103	Intermediate Accounting I	45	30	00	60	4
BACC	2104	Management Accounting I	45	30	00	45	3
BACC	2206	Intermediate Accounting II	45	30	00	60	4
BACC	2207	Management Accounting II	30	30	00	45	3
BACC	3110	Financial Reporting	30	30	00	45	3
BACC	3221	Accounting Packages	30	00	30	45	3
<b>Total</b>							<b>20</b>

**BACHELOR OF SCIENCE IN FINANCE AND BANKING****Degree Requirement Summary**

<b>Course Category</b>	<b>Credits</b>
General Courses Requirements	21
Major Concentration	60
Cognate Requirements	37
Electives	06
Research	06
Industrial Attachment	06
<b>Total</b>	<b>136</b>

**General Courses**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECA 1202	Principles of Sociology	30	30	00	45	3
GECC 1101	Fundamentals of Computers and Office Applications	45	00	30	60	4
GECH 1101	Health Principles	30	30	00	45	3
GECL 1101	Introduction to Writing Skills	30	30	00	45	3
GECS 1202	Statistics	30	30	00	45	3
GECV 1201	Motor Vehicle Driving	15	00	30	30	2
GECR 1101	Christian Beliefs	30	30	00	45	3
<b>Total</b>						<b>21</b>

**Major Concentration**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BBAN 1201	Principles of Banking	30	30	00	45	3
BBAN 2102	Microfinance	30	30	00	45	3
BBAN 2203	Credit Analysis and Appraisal	30	30	00	45	3
BBAN 3104	Banking Theory and Practice	30	30	00	45	3
BBAN 3105	Banking Regulation	30	30	00	45	3
BBAN 3106	Bank Risk Management	30	30	00	45	3
BBAN 3207	Treasury Management	30	30	00	45	3
BBAN 3208	Bancassurance	30	30	00	45	3
BBAN 3209	International Banking	30	30	00	45	3
BFNC 1201	Introduction to Finance	30	30	00	45	3
BFNC 2102	Financial Modelling	30	30	00	45	3
BFNC 2103	Financial Statement Analysis	30	30	00	45	3
BFNC 2204	Business Finance and Investments	30	30	00	45	3
BFNC 2205	Financial Management	30	30	00	45	3
BFNC 2206	Risk and Insurance Management	30	30	00	45	3
BFNC 3107	Corporate Finance	30	30	00	45	3
BFNC 3108	Financial Institutions and Markets	30	30	00	45	3
BFNC 3209	Security Analysis and Portfolio Mgt	30	30	00	45	3
BFNC 3210	International Financial Management	30	30	00	45	3
BFNC 3211	Fixed Income	30	30	00	45	3
<b>Total</b>						<b>60</b>

**Cognate Requirements**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BACC 1101	Fundamentals of Accounting I	45	30	00	60	4
BACC 1102	Fundamentals of Accounting II	45	30	00	60	4
BACC 2103	Intermediate Accounting I	45	30	00	60	4

BACC	2104	Management Accounting I	30	30	00	45	3
BACC	2206	Intermediate Accounting II	45	30	00	60	4
BECO	1101	Microeconomics I	30	30	00	45	3
BBSA	1201	Data Processing Skills	30	30	00	45	3
BBSA	2102	Mercantile Law	30	30	00	45	3
BECO	1202	Macroeconomics I	30	30	00	45	3
BMAT	1101	Business Algebra and Calculus	30	30	00	45	3
BESB	2101	Basic Entrepreneurship	30	00	45	45	3
<b>Total</b>							<b>37</b>

**Electives (Choose at least 6 Credit Hours)**

Code	Title	LH	TH	PH	CH	CU	
BACC	2207	Management Accounting II	30	30	00	45	3
BACC	2209	Ethics and Corporate Governance	30	30	00	45	3
BACC	3219	Accounting for Banks & Insurance Companies	30	30	00	45	3
BACC	3221	Accounting Packages	30	30	00	45	3
BHRM	2209	Human Resource Management	30	30	00	45	3
BBCT	1111	Fundamentals of Relational Database Systems	30	30	00	45	3
BMGT	3103	International Business Admin.	30	30	00	45	3
BMGT	3204	Strategic Management	30	30	00	45	3
BMGT	3205	Production and Operations Mgt	30	30	00	45	3

**Research**

Code	Title	LH	TH	PH	CH	CU	
BREM	2201	Research Methods	30	30	00	45	3
BREP	3102	Research Project	00	30	90	45	3
<b>Total</b>						<b>6</b>	

**Industrial Attachment (6 Credit Hours)**

Code	Title	LH	TH	PH	CH	CU	
BINA	3301	Industrial Attachment	00	00	270	90	6

**Recommended Schedule for Bachelor of Science in Finance and Banking**

**First Year** **44**

**Semester 1**

Code	Title	LH	TH	PH	CH	CU	
BACC	1101	Fundamentals of Accounting I	45	30	00	60	4
BECO	1101	Microeconomics I	30	30	00	45	3
BMAT	1101	Business Algebra and Calculus	30	30	00	45	3
GECC	1101	Fundamentals of Computers and Office Applications	45	00	30	60	4
GECH	1101	Health Principles	30	30	00	45	3
GECL	1101	Introduction to Writing Skills	30	30	00	45	3
GECR	1101	Christian Beliefs	30	30	00	45	3
<b>Total</b>						<b>23</b>	

**Semester 2**

Code	Title	LH	TH	PH	CH	CU	
BACC	1202	Fundamentals of Accounting II	45	30	00	60	4
BBAN	1201	Principles of Banking	30	30	00	45	3
BECO	1202	Macroeconomics I	30	30	00	45	3

BFNC	1201	Introduction to Finance	30	30	00	45	3
GECA	1202	Principles of Sociology	30	30	00	45	3
GECS	1202	Statistics	30	30	00	45	3
GECV	1201	Motor Vehicle Driving	15	00	30	30	2
<b>Total</b>							<b>21</b>
<b>Second Year</b>							<b>44</b>
<b>Semester 1</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BACC	2103	Intermediate Accounting I	45	30	00	60	4
BACC	2104	Management Accounting I	30	30	00	45	3
BBAN	2102	Microfinance	30	30	00	45	3
BBSA	2102	Mercantile Law	30	30	00	45	3
BESB	2101	Basic Entrepreneurship	30	00	45	45	3
BFNC	2102	Financial Modelling	30	30	00	45	3
BFNC	2103	Financial Statement Analysis	30	30	00	45	3
<b>Total</b>							<b>22</b>
<b>Semester 2</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BACC	2206	Intermediate Accounting II	45	30	00	60	4
BBAN	2203	Credit Analysis and Appraisal	30	30	00	45	3
BBSA	1201	Data Processing Skills	30	30	00	45	3
BFNC	2204	Business Finance and Investments	30	30	00	45	3
BFNC	2205	Financial Management	30	30	00	45	3
BFNC	2206	Risk and Insurance Management	30	30	00	45	3
BREM	2201	Research Methods	30	30	00	45	3
<b>Total</b>							<b>22</b>
<b>Third Year</b>							<b>48</b>
<b>Semester 1</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BBAN	3104	Banking Theory and Practice	30	30	00	45	3
BBAN	3105	Banking Regulation	30	30	00	45	3
BBAN	3106	Bank Risk Management	30	30	00	45	3
BFNC	3107	Corporate Finance	30	30	00	45	3
BFNC	3108	Financial Institutions and Markets	30	30	00	45	3
BMGT	3103	International Business Admin.	30	30	00	45	3
BREP	3102	Research Project	0	30	90	45	3
<b>Total</b>							<b>21</b>
<b>Semester 2</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BBAN	3207	Treasury Management	30	30	00	45	3
BBAN	3208	Bancassurance	30	30	00	45	3
BBAN	3209	International Banking	30	30	00	45	3
BFNC	3209	Security Analysis and Portfolio Mgt	30	30	00	45	3
BFNC	3210	International Financial Mgt	30	30	00	45	3
BFNC	3211	Fixed Income	30	30	00	45	3
BACC	3219	Accounting for Banks and Insurance Companies	30	30	00	45	3
<b>Total</b>							<b>21</b>



**Summer**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BINA 3301	Industrial Attachment	00	00	270	90	6
<b>Grand Total</b>						<b>136</b>

**Minor in Finance and Banking**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BBAN 1201	Principles of Banking	30	30	00	45	3
BBAN 2102	Microfinance	30	30	00	45	3
BBAN 2203	Credit Analysis and Appraisal	30	30	00	45	3
BFNC 1201	Introduction to Finance	30	30	00	45	3
BFNC 2204	Business Finance and Investments	30	30	00	45	3
BFNC 2205	Financial Management	30	30	00	45	3
BFNC 3107	Corporate Finance	30	30	00	45	3
<b>Total</b>						<b>21</b>

## DIPLOMA IN ACCOUNTING

### Diploma Requirement Summary

Course Category	Credits
General Courses Requirements	13
Major Concentration	33
Cognate Requirements	21
Electives	03
Research	03
Industrial Attachment	06
<b>Total</b>	<b>79</b>

### General Courses

Code	Title	LH	TH	PH	CH	CU
GECC 1101	Fundamentals of Computers and Office Applications	45	00	30	60	4
GECH 1101	Health Principles	30	30	00	45	3
GECL 1101	Introduction to Writing Skills	30	30	00	45	3
GREC 1101	Christian Beliefs	30	30	00	45	3
<b>Total</b>						<b>13</b>

### Major Concentration

Code	Title	LH	TH	PH	CH	CU
DACC 1101	Elementary Financial Accounting I	30	30	00	45	3
DACC 1202	Elementary Financial Accounting II	30	30	00	45	3
DACC 2103	Intermediate Accounting Concepts I	30	30	00	45	3
DACC 2104	Elementary Cost Accounting	30	30	00	45	3
DACC 2105	Intern'l Acc Diversity & Standards	30	30	00	45	3
DACC 2206	Intermediate Accounting Concepts II	30	30	00	45	3
DACC 2207	Taxation Principles	30	30	00	45	3
DACC 2208	Accounting Packages	30	30	00	45	3
DENT 2101	Entrepreneurship Concepts	30	30	00	45	3
DFNC 2101	Business Finance Concepts	30	30	00	45	3
DMKT 2101	Basic Marketing	30	30	00	45	3
<b>Total</b>						<b>33</b>

### Cognate Requirements

Code	Title	LH	TH	PH	CH	CU
DBSA 1201	General Principles of Law	30	30	00	45	3
DBSA 2204	Business Ethics Principles	30	30	00	45	3
DECO 1101	Elementary Economics	30	30	00	45	3
DECO 1202	Money, Banking & Public Finance	30	30	00	45	3
DMAT 1101	Basic Mathematics	30	30	00	45	3
DMAT 1202	Quantitative Methods	30	30	00	45	3
DMGT 2201	Organization & Management Theory	30	30	00	45	3
<b>Total</b>						<b>21</b>

### Electives (Choose at least 3 Credit Hours)

Code	Title	LH	TH	PH	CH	CU
BBSA 1201	Data Processing Skills	30	00	45	45	3
DPSM 1202	Introduction to Procurement Process	30	30	00	45	3
DHRM 1201	Human Resource Mgt. Principles	30	30	00	45	3

### Research

Code	Title	LH	TH	PH	CH	CU
DREP 2202	Introduction to Research Project	30	10	30	45	3

**Industrial Attachment**

Code	Title	LH	TH	PH	CH	CU
DINA 2301	Industrial Attachment	00	00	270	90	6

**Recommended Schedule for Diploma in Accounting****First Year** **37****Semester 1**

Code	Title	LH	TH	PH	CH	CU
DACC 1101	Elementary Financial Accounting I	30	30	00	45	3
DECO 1101	Elementary Economics	30	30	00	45	3
DENT 2101	Entrepreneurship Concepts	30	30	00	45	3
DMAT 1101	Basic Mathematics	30	30	00	45	3
GECC 1101	Fundamentals of Comp. & Office Applic.	45	00	30	60	4
GECL 1101	Introduction to Writing Skills	30	30	00	45	3
<b>Total</b>						<b>19</b>

**Semester 2**

Code	Title	LH	TH	PH	CH	CU
DACC 1202	Elementary Financial Accounting II	30	30	00	45	3
DBSA 1201	General Principles of Law	30	30	00	45	3
DECO 1202	Money, Banking & Public Finance	30	30	00	45	3
DMAT 1202	Quantitative Methods	30	30	00	45	3
DMGT 2201	Organization & Management Theory	30	30	00	45	3
GEGR 1101	Christian Beliefs	30	30	00	45	3
<b>Total</b>						<b>18</b>

**Second Year** **42****Semester 1**

Code	Title	LH	TH	PH	CH	CU
DACC 2103	Intermediate Accounting Concepts I	30	30	00	45	3
DACC 2104	Elementary Cost Accounting	30	30	00	45	3
DACC 2105	International Accounting Diversity and Standards	30	30	00	45	3
DFNC 2101	Business Finance Concepts	30	30	00	45	3
DMKT 2101	Basic Marketing	30	30	00	45	3
GECH 1101	Health Principles	30	30	00	45	3
<b>Total</b>						<b>18</b>

**Semester 2**

Code	Title	LH	TH	PH	CH	CU
DACC 2206	Intermediate Accounting Concepts II	30	30	00	45	3
DACC 2207	Taxation Principles	30	30	00	45	3
DACC 2208	Accounting Packages	30	30	00	45	3
DBSA 2204	Business Ethics Principles	30	30	00	45	3
DHRM 1201	Human Resource Mgt Principles	30	30	00	45	3
DREP 2202	Introduction to Research Project	30	10	30	45	3
<b>Total</b>						<b>18</b>

**Summer**

Code	Title	LH	TH	PH	CH	CU
DINA 2301	Industrial Attachment	00	00	270	90	6
<b>Grand Total</b>						<b>79</b>

## COURSE DESCRIPTIONS

### **BACC 1101 Fundamentals of Accounting I**

This course introduces the fundamentals of accounting to the learner. The fundamental items include the accounting equation, the accounting cycle, adjustments and entries, the closing process, inventory and accounting methods, cash, receivables, tangible and intangible assets. Reports such as the income statements, statement of owner's equity, balance sheet and statement of cash flows are tackled at a basic level.

### **BACC 1202 Fundamentals of Accounting II**

#### **Prerequisite: BACC 1101**

This course is a continuation of BACC 1101 that introduced accounting concepts to the learner. This unit introduces topics such as payables and long-term liabilities, partnerships, corporations and investment. This course also highlights the preparation of cash flow statements, financial statements analysis, and budgeting. Concepts of management accounting and the related cost classifications and computations are an added area of study.

### **BACC 2103 Intermediate Accounting I**

#### **Prerequisite: BACC 1202**

This course develops knowledge and skills in: understanding and applying the conceptual framework and accounting standards in the preparation of single entity financial statements. The key aspects covered include: conceptual framework, reporting performance; financial position; revenue recognition; inventory; cash and receivables.

### **BACC 2104 Management Accounting I**

#### **Prerequisite: BACC 1202**

The course introduces student to fundamental cost concepts, behaviour, and analysis and the use of cost information to develop superior decision making process and outputs. It introduces the production, communication, and the use of accounting information within the context of business activities.

### **BACC 2105 Taxation I**

The course introduces students to current laws and principles relating to taxation in Uganda and its practical application in determining sources of gross income. It also involves the calculation of taxable income and tax payable by individuals and companies.

### **BACC 2206 Intermediate Accounting II**

#### **Prerequisite: BACC 2103**

The course is a continuation of BACC 2103 Intermediate Accounting I. In this course, students examine the accounting of plant property and equipment. A special emphasis is placed on the liability and equity sections of the Statement of Financial Position. Key concepts include current liabilities and contingencies, pension and post-employment benefits and shareholder equity.

### **BACC 2207 Management Accounting II**

#### **Prerequisite: BACC 2104**

This course provides students with an appreciation of management accounting concepts related to the management functions of planning, control, and decision making. The course introduces a number of management accounting tools and quantitative techniques that can be used to analyse how business processes consume resources.

### **BACC 2208 Taxation II**

#### **Prerequisite: BACC 2105**

The course introduces students to current laws relating to taxation in Uganda and its practical application in determining sources of gross income. It also involves the calculation of taxable income and tax payable by individuals and companies it also explores more on tax assessment and tax returns for an individual and company.

### **BACC 2209 Ethics and Corporate Governance**

#### **Prerequisite: BACC 1202**

This course is divided into two parts ethics and best corporate governance practices for organizations. In the first section, students will be taught business ethics and professional ethics as applied to the accounting profession. The relationship between the environment and business entities will also be studied. In the second half of the course, learners will study the evolution of corporate governance, theories on corporate governance, and the regulation of corporate bodies.

### **BACC 3110 Financial Reporting**

#### **Prerequisite: BACC 2206**

This course equips students with skills required for financial reporting. Learners will study key International Financial Reporting Standards (IFRSs) provisions and requirements for recognizing and accounting of financial information.

### **BACC 3111 Auditing Theory and Practice**

#### **Prerequisite: BACC 2206**

This course introduces auditing and other assurance services. In this unit, students will learn to gather and evaluate audit evidence related to company financial statement. This course builds on the knowledge and understanding gained from previous Accounting papers i.e. Intermediate Accounting I & II, and Management Accounting I & II. At this stage, students are expected to be having a good knowledge of IASs and IFRSs. This course unit prepares students for other advanced papers in auditing.

### **BACC 3112 Management Accounting III**

#### **Prerequisite: BACC 2207**

This course provides students with an appreciation of management accounting concepts related to the management functions of planning, control, and decision making. The course focuses on budgeting, performance management and strategic management accounting.

### **BACC 3113 Accounting Theory & Practice**

#### **Prerequisite: BACC 2206**

This course reviews all accounting concepts that have been studied by the learner in the past two years. It involves the learner's initiative to approach and request any enterprise that does not have proper books of accounts to let him/her begin recording its transactions, extract a trial balance at each month-end this semester, prepare financial statements, and analyze its business operations. By so doing, the learner consolidates his/her knowledge in the approach to and treatment of financial transactions; the entrepreneur also gets the benefit of receiving some counsel from the learner that acts as his consultant in business matters through the supply of the financial statement analysis.

### **BACC 3114 Advanced Taxation**

#### **Prerequisite: BACC 2105**

To provide a learner with thorough knowledge and application of all tax aspects as required by Government of Uganda.

### **BACC 3115 Public Sector Accounting and Reporting**

#### **Prerequisite: BACC 2206**

This course equips students with the legal, regulatory and policy frameworks that are used in preparing accounts of public institutions. Learners will study accountability and ethics governing the accounting process in the government.

### **BACC 3216 Advanced Financial Reporting**

#### **Prerequisite: BACC 3110**

This course is built on the foundation of Financial Reporting BACC 3111 and introduces advanced concepts in financial reporting. Learners will study International Financial Reporting Standards (IFRSs) as they are applied to leases, government grants, foreign currency transactions, and business combinations. Learners will also be taught financial statement analysis.

### **BACC 3217 Advanced Auditing Theory and Practice**

#### **Prerequisite: BACC 3111**

The primary focus of this course is the auditing of external audit of financial statements. Students enrolled in this course must possess introductory skills on auditing and assurance services. This course teaches students International Standard of Auditing (ISA) and Generally Accepted Auditing Standards (GAAS) as they are used in auditing activities.

### **BACC 3218 Forensic Accounting and Fraud Examination**

#### **Prerequisite: BACC 3111**

This course amalgamates knowledge from economics, statistics, finance, and law applicable in forensic accounting and fraud examination. Students will study the theory, process and methods of fraud examination and forensic accounting. This course also introduces specialized areas of fraud mainly financial statements fraud and tax fraud.

### **BACC 3219 Accounting For Banks and Insurance Companies**

This course teaches students accounting principles and concepts used in banking and insurance companies. Learners will be introduced to the roles of banks and insurance firms in the economy, the accounting process in banks and insurance companies, journalizing, and posting of entries, and preparation of financial statements.

### **BACC 3120 Advanced Accounting I**

#### **Prerequisite: BACC 2206**

The course equips students with knowledge and understanding of advanced topics in accordance with contemporary legislations, and accounting standards so as to logically handle several accounting aspects. This course heavily builds on the knowledge and understanding gained from previous Accounting papers i.e. Intermediate Accounting I & II. Topics covered include: international accounting and the development of standards; business combinations; and consolidated statements of financial statements.

### **BACC 3221 Accounting Packages**

#### **Prerequisite: BACC 1202**

This course introduces students to accounting software programs that are pre-designed for small to medium-size businesses. Students will use the software and practically apply their knowledge of Generally Accepted Accounting Principles (GAAP) and International Financial Reporting Standards (IFRSs) to create and maintain accounting records, including period end procedures and the creation of financial statements for sole proprietorships, partnerships and corporations.

## **BACC 3222 Advanced Accounting II**

### **Prerequisite: BACC 3120**

This course builds on the knowledge acquired in earlier studies. It concentrates on the application of different accounting standards in the preparation and interpretation of financial statements. Special emphasis is placed on accounting for not-for-profit organizations including public sector reporting, reporting earnings per share, accounting for partnerships and correction of errors. At the end of this course students should be able to construct and interpret financial reports prepared for external users.

## **BBAN1201 Principles of Banking**

This course teaches students fundamental banking concepts and principles, the basics of how banks operate as service providers and businesses, their obligation to operate in a safe and sound manner and manage risks, and the responsibilities of bank employees in a customer-focused financial services environment.

## **BBAN 2102 Microfinance**

This course introduces students to microfinance institutions and their role in the development agenda of poor economies. Areas explored in this course include the history of microfinance, the salient features of microfinance, loans and other products offered by microfinance institutions, fraud and internal control systems, and emerging trends.

## **BBAN 2203 Credit Analysis and Appraisal**

This course provides an overview of lending principles and analytical aspects such as the financial analysis of a firm to determine credit worthiness as they are used by banks. Learners will acquire working knowledge on credit analysis and implementation of practical analytical methods of loan appraisal. The course trains learners to make prudent credit decision-making for loan quality management and profitability.

## **BBAN 3104 Banking Theory and Practice**

This course unit is intended to equip the candidate with the knowledge and skill on: the nature of financial intermediaries, the role of banks, theories of financial inter mediation, the benefits of financial inter mediation, banking activities, types of banking, international banking and current issues in banking.

## **BBAN 3105 Banking Regulation**

This course is intended to advance the candidate with the knowledge and skill of: functions of the central bank, monetary policies , debt securities and open market operations, reserve requirements, Bank of Uganda organizational structure, international central banking, rationale of regulation, financial regulation in Uganda and the new Capital Accord Basel II.

## **BBAN 3106 Bank Risk Management**

This course unit aims at equipping the candidate with knowledge and skill on; the most common risks in banking, the importance of the interrelation among banking risks , risk measurement , importance of risk management and risk management techniques.

## **BBAN 3207 Treasury Management**

This course ties various elements of finance and accounting into understanding the elements of Treasury Management at a corporate level. It involves attaining technical skills and knowledge necessary for work in a large Corporate Treasury, preparing the student for potential work in the treasury function. The course focuses on the various markets for funding, transactional instruments, derivative products, and risk management that a corporate treasury team faces in their daily work.

### **BBAN 3208 Bancassurance**

This course introduces students to the relationship between banks and insurance companies through bancassurance. Learners will study the salient features of bancassurance, services and products offered in bancassurance agreements, client management and ethics.

### **BBAN 3209 International Banking**

This course focuses on various institutional and management issues facing international banking. It examines the current international banking and financial environment and its evolution during recent decades, major managerial and operational issues in international banking, and the regulatory problems confronting international banks. The course also studies the implications of major global financial crises for international banks.

### **BFNC 1201 Introduction to Finance**

This course introduces students to the fundamental skills and knowledge in the field of finance. Learners will be introduced to finance theory, application of economic theories, and the business environment in preparation of intermediate and advanced courses in finance. The material covered include: the evolution of money, financial markets, the time value of money, risk and basic skills of required to value bonds and stocks.

### **BFNC 2102 Financial Modelling**

This course is structured to offer the candidate an in depth exposure to knowledge and skills on; financial modeling in relation to spread sheet computer applications, estimating betas with regression analysis, Portfolio optimization, advanced risk analysis, American option valuation, Black Scholes formula and exotic option valuation.

### **BFNC 2103 Financial Statements Analysis**

The objective of this course is to provide students with a framework for analyzing a firm's past performance, estimating its future performance, and valuing its equity. The course integrates key concepts in financial reporting, financial accounting and financial management. The course focuses on teaching students to interpret the financial statements.

### **BFNC 2204 Business Finance and Investments**

This course is intended to equip students with knowledge in valuation, analysis and management of investments and finance. This course exposes students to: investment constraints of risk and return, working capital management, investment appraisal methods, project analysis and performance measurement.

### **BFNC 2205 Financial Management**

In this course, students develop a basic understanding of business finance which deals with how organizations effectively manage their operating and fixed assets and fund them with an optimal mix of debt and equity financing. Topics include: capital market finance, market efficiency, dividend policies, financial risk management, options and corporate finance concepts and applications.

### **BFNC 2206 Risk and Insurance Management**

This course introduces students to the fundamental concepts of risk and how it can be managed. An emphasis is placed on insurance, one of the tools used to respond to risk in the modern world. This unit examines the regulatory environment and the general dynamics to the concepts, approaches and methodologies adopted by organizations in the risk management process.



### **BFNC 3107 Corporate Finance**

This course provides a theoretical framework used to address issues in project appraisal and financing, the pricing of risk, securities valuation, market efficiency, capital structure, and mergers and acquisitions. It provides students with the tools required for further studies in financial intermediation and investments.

### **BFNC 3108 Financial Institution and Markets**

This course focuses on the foundations of the financial markets. It equally intends to introduce one of the most important sources of financing for companies and governments: public markets. Conceptual issues related to risk and return, the role of regulatory bodies, mechanism of commercial banking, operations of insurance companies and mutual funds are discussed elaborately. It also describes the importance of small savings, provident funds, pension funds and credit rating agencies.

### **BFNC 3209 Security Analysis and Portfolio Management**

This course develops learners' knowledge of principles, theories and practices relating to portfolio management and optimal investment. The course also develops specific skills on the valuation and analysis of company securities. Students taking this course should expect to learn about the various types of securities and the markets in which they are traded, the various techniques used to make sound analysis, and the factors considered in portfolio construction.

### **BFNC 3111 Fixed Income**

This course is designed to provide a description and analysis of fixed income securities. It covers the broad topical areas of: the institutions, instruments and operations of fixed income securities, markets, the analysis and valuation of fixed income securities, the analysis of interest rate related derivative instruments and how they reduce risk.

### **BINS 1101 Introduction To Risk and Insurance**

This course introduces students to the fundamental concepts of risk and how it can be managed. An emphasis is placed on insurance, one of the tools used to respond to risk in the modern world. This unit examines the regulatory environment and the general dynamics to the concepts, approaches and methodologies adopted by organizations in the risk management process.

### **BINS 1202 Introduction To Actuarial Science**

The unit prepares the candidate on the mathematical applications in insurance and finance. Emphasis is drawn at differential calculus, sequences and series, integral calculus, probability theory, linear algebra, and numerical methods. An understanding of mathematical applications in insurance and finance avails knowledge of risk assessment that fosters accurate decision making in risk management.

### **BINS 2103 Assurance of Persons**

This unit is meant to give the candidate an understanding of what life assurance is, the various classes and types of life assurance policies. The principles applicable in life insurance as well as appreciating the role of life assurance to both the individual and nation. The unit further equips the candidate with the basic knowledge on underwriting and handling of life claims.

### **BINS 2104 Motor Insurance**

This unit equips the candidate with knowledge and demonstrable understanding of the different types of motor risks and the compulsory insurance requirements.

### **BINS 2205 Legal Aspects of Insurance**

This course unit is intended to advance knowledge and skill of the laws which form the background to the operation of insurance. It also draws an understanding to the framework within which insurance laws operate and their administration.

### **BINS 2206 Property Insurance**

This course advances to the candidate an understanding and knowledge about the main risks to commercial property, policy covers and market practices of commercial property and business interruption insurances, the risk perception, assessment and underwriting issues associates with these insurances.

### **BINS 3107 Re-Insurance**

This unit subject explores the basic characteristics, practices and procedures for reinsurance transactions. It further develops basic analytical skills that are an integral part in reporting of reinsurance results. For detailed course appreciation, the candidate under this unit acquired knowledge on the purpose of reinsurance, process of reinsurance placement, claims processing and settlement under facultative and treaty reinsurance, calculation of the cost of recovery which includes reinstatement of reinsurance claims.

### **BINS 3108 Marine Insurance**

This unit prepares the candidate to demonstrate knowledge and understanding of Marine hull and related liability risks and insurance

### **BINS 3209 Insurance Brokerage**

The course unit provides the candidate with knowledge and understanding of the wide range of technical skills required by a professional insurance broker with specific reference to client care and effective management of a brokerage firm.

### **BINS 3210 Pension Insurance**

This unit is designed to equip the candidate with the knowledge and understanding of the need for income security in old age, the different ways countries have organized income security for their elderly and the motivations for pension reforms.

### **BINS 3211 Liability Insurance**

This unit equips the candidate with knowledge and understanding of liability insurance and its classes of employer's liability, Public liability, Product liability, directors' and Officers' liability and professional indemnity.

### **DACC 1101 Elementary Financial Accounting I**

This course introduces the learners to basic accounting concepts which cover: analysis of transactions and events, the accounting equations, journalizing, recording and posting transactions, adjusting accounts and preparation of basic financial statements.

### **DACC1202 Elementary Financial Accounting II**

Pre-requisite: DACC 1101

This course builds on the knowledge gained in Elementary Financial Accounting 1. It covers topics such as: payables and long-term liabilities, partnerships, corporations and investments. This course also highlights the preparation of cash flow statements, financial statements analysis.

### **DACC 2103 Intermediate Accounting Concepts I**

Pre-requisite: DACC 1202

This course looks at the elementary financial accounting functions and basic theory. It covers the conceptual framework underlying financial accounting and review of accounting process, statement of financial performance and position and the time value of money.

### **DACC 2104 Elementary Cost Accounting**

Pre-requisite: DACC 1202

This course is concerned with the study of cost accounting and how a sound costing system is a base for effective management decision making. The course will cover such topics as: purposes of cost accounting, conditions for effective costing systems, elements of cost and cost statements, scope of cost accounting, purchasing procedure and issue of materials, store keeping and stock control, methods of valuing material issues, labor costing, and allocation and apportionment of overheads.

### **DACC 2105 International Accounting Diversity and Standards**

Pre-requisite: DACC 1202

This course introduces students to the differences in accounting, reporting and valuation principles around the world. Also it will introduce students to the international accounting standards and principles.

### **DACC 2206 Intermediate Accounting Concepts II**

Pre-requisite: DACC 2103

This course builds on the knowledge attained in Intermediate Accounting Concepts I. It includes the learner to topics such as: non-current assets, investments, current and long term liabilities and leases.

### **DACC 2207 Taxation Principles**

The course introduces students to current laws relating to taxation in Uganda and its practical application in determining sources of gross income. It also involves the calculation of taxable income and tax payable by individuals and companies.

### **DACC 2208 Accounting Packages**

Pre-requisite: DACC 1202

This course introduces students to accounting software programs that are pre-designed for small to medium-size businesses. Students will use the software and practically apply their knowledge of Generally Accepted Accounting Principles (GAAP) and International Financial Reporting Standards (IFRSs) to create and maintain accounting records, including period end procedures and the creation of financial statements.

### **DFNC 2101 Business Finance Concepts**

This course introduces students to the fundamental skills and knowledge in the field of finance. In the course of study, students will look at the theories and a managerial approach to financial analysis, planning and control, management of working capital and long-term financing.

**DEPARTMENT OF MANAGEMENT**

**Head of Department;** Nalumu, Juliet Tukube, (PhD in Progress), MBA (Bugema University), Uganda; BBA (Accounting & Management), Bugema University, Uganda.

**BACHELOR OF ARTS IN HUMAN RESOURCE MANAGEMENT  
3 YEAR PROGRAM****Degree Requirement Summary**

<b>Course Category</b>	<b>Credits</b>
General Courses Requirements	21
Major Concentration	45
Cognate Requirements	47
Electives	6
Research	6
Industrial Attachment	6
<b>Total</b>	<b>131</b>

**General Courses (21)**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECR 1101	Christian Beliefs	30	30	0	45	3
GECH 1101	Health Principles	30	30	0	45	3
GECC 1101	Fundamentals of Computers and Office Application	45	0	45	60	4
GECL 1101	Introduction to Writing Skills	30	30	0	45	3
GECS 1202	Statistics & Probability	30	30	0	45	3
GECA 1202	Principles of Sociology	30	30	0	45	3
GECV 1201	Motor Vehicle Driving	30	0	45	30	2

**Major Concentration**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BHRM 2101	Human Resource Info. Mgt System	30	30	0	45	3
BHRM 2102	Human Resource Planning	30	30	0	45	3
BHRM 2103	Staff Dev't & Performance Mgt.	30	30	0	45	3
BHRM 2204	Human Resource Training & Dev't	30	30	0	45	3
BHRM 2205	Career Planning & Management.	30	30	0	45	3
BHRM 2206	Organizational Change & Dev't	30	30	0	45	3
BHRM 2207	Compensation Management	30	30	0	45	3
BHRM 2209	Human Resource Management	30	30	0	45	3
BHRM 2208	Occupational Health & Safety	30	30	0	45	3
BHRM 3110	Strategic Human Resource Mgt.	30	30	0	45	3
BHRM 3111	Advanced Human Resource Mgt.	30	30	0	45	3
BHRM 3112	Labour Law & Industrial relations /Welfare	30	30	0	45	3
BHRM 3213	Conflict Resolution & Negotiation	30	30	0	45	3
BHRM 3214	Human Resource policies & Practices	30	30	0	45	3
BHRM 3215	Human Resource Ethical Issues	30	30	0	45	3

**Cognate Requirements**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BACC 1101	Fundamentals of Accounting 1	45	30	0	60	4
BACC 1202	Fundamentals of Accounting 11	45	30	0	60	4
BACC 2104	Management Accounting 1	30	30	0	45	3
BACC 2105	Taxation	30	30	0	45	3
BACM 1201	Business Communication Skills	30	30	0	45	3

BBSA	1201	Data Processing Skills	30	30	0	45	3
BECO	1101	Microeconomics I	30	30	0	45	3
BECO	1202	Macroeconomics I	30	30	0	45	3
BESB	2101	Basic Entrepreneurship	30	0	45	45	3
BMAT	1101	Business Algebra & Calculus	30	30	0	45	3
BMGT	1201	Management & Organization	30	30	0	45	3
BMGT	3102	Organizational Behavior	30	30	0	45	3
BMKT	2101	Marketing Management I	30	30	0	45	3
BMKT	3207	Customer Relationship Management	30	30	0	45	3
BPAM	3113	Administrative Law	30	30	0	45	3

**Electives (Choose At Least 6 Cr)**

Code	Title	LH	TH	PH	CH	CU	
						6	
BECO	3216	Agricultural Economics	30	30	0	45	3
BESB	2202	Intermediate Entrepreneurship	30	30	0	45	3
BFNC	2205	Financial Management	30	30	0	45	3
BFNC	2206	Risk & Insurance Management	30	30	0	45	3
BPPG	2202	Project Planning & Management	30	30	0	45	3

**Research (6 Credits)**

Code	Title	LH	TH	PH	CH	CU	
						6	
BREM	2201	Research Methodology	30	30	0	45	3
BREP	3102	Research Project	0	30	90	45	3

**Industrial Attachment (6 Credits)**

Code	Title	LH	TH	PH	CH	CU	
						6	
BINA	3301	Industrial Attachment	0	0	27	90	6

**Recommended Schedule For Bachelor Of Human Resource Management**

**First Year Semester 1**

Code	Title	LH	TH	PH	CH	CU	
						44	
BACC	1101	Fundamentals of Accounting I	45	30	0	60	4
BECO	1101	Microeconomics I	30	30	0	45	3
BMAT	1101	Business Algebra	30	30	0	45	3
GECC	1101	Fundamentals of computers & Office Application	45	0	45	60	4
GECH	1101	Health Principles	30	30	0	45	3
GECL	1101	Christian Beliefs	30	30	0	45	3
GECL	1101	Introduction to Writing Skills	30	30	0	45	3

**Semester 2**

Code	Title	LH	TH	PH	CH	CU	
						21	
BACC	1202	Fundamentals of Accounting 11	45	30	0	60	4
BBSA	1201	Data Processing skills	30	30	0	45	3
BECO	1202	Macroeconomics I	30	30	0	45	3
BMGT	1201	Management and organization	30	30	0	45	3
GECA	1202	Principles of sociology	30	30	0	45	3
GECS	1202	Statistics	30	30	0	45	3
GECV	1202	Motor vehicle Driving	30	0	45	30	2

**Second Year Semester 1**

Code	Title	LH	TH	PH	CH	CU	
						42	
BACC	2105	Taxation	30	30	0	45	3

BACC	2104	Management Accounting	30	30	0	45	3
BESB	2101	Basic Entrepreneurship	30	30	0	45	3
BHRM	2101	Human Resource Info. Mgt System	30	30	0	45	3
BHRM	2102	Human Resource Planning	30	30	0	45	3
BHRM	2103	Staff Dev't & Performance Mgt	30	30	0	45	3
BMKT	2101	Marketing Management 1	30	30	0	45	3

**Semester 2**

Code	Title	LH	TH	PH	CH	CU	
BHRM	2205	Career Planning & Management	30	30	0	45	3
BHRM	2204	Human Resource Training & Dev't	30	30	0	45	3
BHRM	2206	Organizational Development	30	30	0	45	3
BHRM	2207	Compensation Management	30	30	0	45	3
BHRM	2208	Occupational Health & Safety	30	30	0	45	3
BHRM	2209	Human Resource Management	30	30	0	45	3
BREM	2201	Research Methodology	30	30	0	45	3

**Summer****Industrial Attachment**

Code	Title	LH	TH	PH	CH	CU	
BINA	3301	Industrial Attachment	0	0	270	90	6

**Third Year Semester 1**

Code	Title	LH	TH	PH	CH	CU	
	Elective	30	30	0	45	3	
BHRM	3110	Strategic Human Resource Mgt.	30	30	0	45	3
BHRM	3111	Advanced Human Resource Mgt.	30	30	0	45	3
BHRM	3112	Labour Law & Industrial relations /Welfare	30	30	0	45	3
BMGT	3102	Organizational Behavior	30	30	0	45	3
BPAM	3113	Administrative Law	30	30	0	45	3
BREP	3102	Research Project	30	30	0	45	3

**Semester 2**

Code	Title	LH	TH	PH	CH	CU	
BACM	1201	Business Communication Skills	30	30	0	45	3
BHRM	3213	Conflict Resolution & Negotiation	30	30	0	45	3
BHRM	3214	Human Resource Policies & Practices	30	30	0	45	3
BHRM	3215	Human Resource. Ethical issues	30	30	0	45	3
BMKT	3207	Customer Relationship Management	30	30	0	45	3
	Elective	30	30	0	45	3	

**Minor in Human Resource Management – (Any 21 credit hours)**

Code	Title	LH	TH	PH	CH	CU	
BHRM	2101	Human Resource Info. Mgt. Sys.	30	30	0	45	3
BHRM	2102	Human Resource Planning	30	30	0	45	3
BHRM	2103	Staff Dev't & Performance Mgt.	30	30	0	45	3
BHRM	2204	H R Training & Development	30	30	0	45	3
BHRM	2205	Career Planning & Management	30	30	0	45	3
BHRM	2207	Compensation Management	30	30	0	45	3
BHRM	2209	Human Resource Management	30	30	0	45	3
BHRM	2208	Occupational Health & Safety	30	30	0	45	3
BHRM	3213	Conflict Resolution & Negotiation	30	30	0	45	3
BHRM	3215	Human Resource Ethical Issues	30	30	0	45	3

## BACHELOR OF ARTS IN ECONOMICS

### Degree Requirement Summary

Course Category	Credits
General Courses Requirements	21
Major Concentration	57
Cognate Requirements	38
Electives	3
Research	6
Industrial Attachment	6
<b>Total</b>	<b>131</b>

### General Courses

Code	Title	LH	TH	PH	CH	CU	21
GECR 1101	Christian Beliefs	30	30	0	45	3	
GECH 1101	Health Principles	30	30	0	45	3	
GECC 1101	Fundamentals of Computers & Office Application	45	0	45	60	4	
GECG 1101	Introduction to Writing Skills	30	30	0	45	3	
GECS 1202	Statistics	30	30	0	45	3	
GECA 1202	Principles of Sociology	30	30	0	45	3	
GECV 1201	Motor Vehicle Driving	15	0	45	30	2	

### Major Concentration

Code	Title	LH	TH	PH	CH	CU	57
BECO 1101	Micro Economics 1	30	30	0	45	3	
BECO 1202	Macro Economics 1	30	30	0	45	3	
BECO 2103	Micro Economics 11	30	30	0	45	3	
BECO 2104	Managerial Economics	30	30	0	45	3	
BECO 2105	Monetary Economics	30	30	0	45	3	
BECO 2206	Economic Thought	30	30	0	45	3	
BECO 2207	Development Economics	30	30	0	45	3	
BECO 2208	Macro Economics 11	30	30	0	45	3	
BECO 2209	International Economics	30	30	0	45	3	
BECO 3110	Economic Planning & Policy	30	30	0	45	3	
BECO 3111	Micro Economics 111	30	30	0	45	3	
BECO 3112	Introduction to Ugandan Economy	30	30	0	45	3	
BECO 3113	Public Finance & Fiscal Policy	30	30	0	45	3	
BECO 3214	Macroeconomics 111	30	30	0	45	3	
BECO 3215	Econometrics	30	30	0	45	3	
BECO 3216	Agricultural Economics	30	30	0	45	3	
BECO 3217	Labor Economics	30	30	0	45	3	
BECO 3218	Public Sector Economics	30	30	0	45	3	
BECO 3219	Resource & Environmental Econ.	30	30	0	45	3	

### Cognate Requirements

Code	Title	LH	TH	PH	CH	CU	38
BPPG 2202	Project Planning & Management	30	30	0	45	3	
BACC 1101	Fundamentals of Accounting 1	45	30	0	60	4	
BMGT 1201	Management & Organization	30	30	0	4	3	
BBSA 1201	Data Processing Skills	30	30	0	45	3	
BMKT 2101	Marketing Management I	30	30	0	45	3	
BBSA 2102	Mercantile Law	30	30	0	45	3	

BESB	2101	Basic Entrepreneurship	30	0	45	45	3
BMAT	1101	Business Algebra & Calculus	30	30	0	45	3
BACM	1201	Business Communication Skills	30	30	0	4	3
BACC	1202	Fundamentals of Accounting 11	45	30	0	60	4
BACC	2105	Taxation I	30	30	0	45	3
BMKT	3207	Customer Relationship Management	30	30	0	45	3

**Electives (Choose at least 3 Cr)**

Code	Title	LH	TH	PH	CH	CU	
BFNC	2205	Financial Management	30	30	0	45	3
BECO	3222	Transport Economics	30	30	0	45	3
BENT	2209	Intermediate Entrepreneurship	30	0	45	45	3
BJMF	1202	Introductory French	30	30	0	45	3
BJMF	1203	Introductory Swahili	30	30	0	45	3
BHRM	2209	Human Resource Management	30	30	0	45	3

**Research (6 Credits)**

Code	Title	LH	TH	PH	CH	CU	
BREM	2201	Research Methods	30	30	0	45	3
BREP	3102	Research Project	0	30	90	45	3

**Industrial Attachment (6 Credits)**

Code	Title	LH	TH	PH	CH	CU	
BINA	3301	Industrial Attachment	0	0	270	90	6

**First Year**

**Semester One**

Code	Title	LH	TH	PH	CH	CU	
BACC	1101	Fundamentals of Accounting I	45	30	0	60	4
BECO	1101	Microeconomics I	30	30	0	45	3
BMAT	1101	Mathematical econ. /Business Algebra	30	30	0	45	3
GECC	1101	Fundamentals of computers & Office Application	45	0	45	60	4
GECG	1101	Introduction to Writing Skills	30	30	0	45	3
GECH	1101	Health Principles	30	30	0	45	3
GECR	1101	Christian Beliefs	30	30	0	45	3

**Semester Two**

Code	Title	LH	TH	PH	CH	CU	
BACC	1202	Fundamentals of Accounting 11	45	30	0	60	4
BACM	1201	Business communication skills	30	30	0	45	3
BBSA	1201	Data Processing skills	30	30	0	45	3
BECO	1202	Macroeconomics I	30	30	0	45	3
BMGT	1201	Management and organization	30	30	0	45	3
GECA	1202	Principles of Sociology	30	30	0	45	3
GECS	1202	Statistics	30	30	0	45	3

**Second Year**

**Semester One**

Code	Title	LH	TH	PH	CH	CU	
BBSA	2102	Mercantile Law	30	30	0	45	3
BECO	2103	Micro economics 11	30	30	0	45	3
BECO	2104	Managerial Economics	30	30	0	45	3



BECO	2105	Monetary Economics	30	30	0	45	3
BESB	2101	Basic Entrepreneurship 1	30	30	45	60	3
BMKT	2101	Marketing Management 1	30	30	0	45	3
GECV	1201	Motor Vehicle Driving	15	30	0	45	2

**Semester Two**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BECO	2206	Economic Thought	30	30	0	45	3
BECO	2207	Development Economics	30	30	0	45	3
BECO	2208	Macroeconomics 11	30	30	0	45	3
BECO	2209	International Economics	30	30	0	45	3
BHRM	2209	Human Resource Management	30	30	0	45	3
BPPG	2202	Project Monitoring & Evaluation	30	30	0	45	3
BREM	2201	Research Methodology	30	30	0	45	3

**21****Summer**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BINA	3301	Industrial Attachment	0	0	270	90	6

**Third Year****Semester One**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BECO	3110	Economic Planning & Policy	30	30	0	45	3
BECO	3111	Microeconomics 111	30	30	0	45	3
BECO	3112	Introduction to Ugandan Economy	30	30	0	45	3
BECO	3113	Public Finance & Fiscal Policy	30	30	0	45	3
BACC	2105	Taxation	30	30	0	45	3
BREP	3102	Research Project	0	30	90	45	3
		Elective	30	30	0	45	3

**42****21****Semester Two**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BECO	3214	Macroeconomics 111	30	30	0	45	3
BECO	3215	Econometrics	30	30	0	45	3
BECO	3216	Agricultural Economics	30	30	0	45	3
BECO	3217	Labor Economics	30	30	0	45	3
BECO	3218	Public Sector Economics	30	30	0	45	3
BECO	3219	Resource & Environmental Econ.	30	30	0	45	3
BMGT	3207	Customer Relationship Mgt.	30	30	0	45	3

**21****Summer****Minor in Economics – (Any 21 credit hours)**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BECO	2103	Micro Economics 11	30	30	0	45	3
BECO	2104	Managerial Economics	30	30	0	45	3
BECO	2207	Development Economics	30	30	0	45	3
BECO	2208	Macro Economics 11	30	30	0	45	3
BECO	2209	International Economics	30	30	0	45	3
BECO	3110	Economic Planning & Policy	30	30	0	45	3
BECO	3112	Introduction to Ugandan Economy	30	30	0	45	3
BECO	3215	Econometrics	30	30	0	45	3
BECO	3216	Agricultural Economics	30	30	0	45	3
BECO	2206	Economic thought	30	30	0	45	3

**BACHELOR OF BUSINESS ADMINISTRATION IN MARKETING****Degree Requirement Summary**

<b>Course Category</b>	<b>Credits</b>
General Courses Requirements	21
Major Concentration	54
Cognates Requirements	47
Electives	3
Research	6
Industrial Attachment	6
<b>Total</b>	<b>137</b>

<b>General Courses</b>			<b>21</b>				
<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
GECR 1101	Christian Beliefs	30	30	0	45	3	
GECH 1101	Health Principles	30	30	0	45	3	
GECC 1101	Fundamentals of Computers and Office Application	45	0	45	60	4	
GECL 1101	Introduction to Writing Skills	30	30	0	60	3	
GECS 1202	Statistics	30	30	0	60	3	
GECA 1202	Principles of Sociology	30	30	0	60	3	
GECV 1201	Motor Vehicle Driving	15	0	45	30	2	

<b>Major Concentration</b>			<b>54</b>				
<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BBCT 3111	E-Commerce & E- Business	30	0	45	45	3	
BBSA 2102	Mercantile Law	30	30	0	45	3	
BHRM 2209	Human Resource Management	30	30	0	45	3	
BMGT 1201	Management & Organization	30	30	0	45	3	
BMGT 3105	Production Operations Management	30	30	0	45	3	
BMGT 3103	International Business Admin.	30	30	0	45	3	
BMKT 2101	Marketing Management 1	30	30	0	45	3	
BMKT 2103	Marketing communication Strategy	30	30	0	45	3	
BMKT 2205	Service marketing	30	30	0	45	3	
BMKT 3211	Public Relations Management	30	30	0	45	3	
BMKT 2104	Business to Business Marketing	30	30	0	45	3	
BMKT 2202	Marketing Management 11	30	30	0	45	3	
BMKT 3106	Sales and Brand Management	30	30	0	45	3	
BMKT 3207	Customer Relationship Mgt.	30	30	0	45	3	
BMKT 3208	Retail & Wholesale Marketing Mgt.	30	30	0	45	3	
BMKT 3209	Consumer Behavior	30	30	0	45	3	
BMKT 3210	International Marketing Strategy	30	30	0	45	3	
BPSM 2101	Procurement & Supply Chain Mgt	30	30	0	45	3	

<b>Cognate Requirements</b>			<b>47</b>				
<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BACC 1101	Fundamentals of Accounting I	45	30	0	60	4	
BACC 1202	Fundamentals of Accounting II	45	30	0	60	4	
BACC 2105	Taxation	30	30	0	45	3	
BACM 1201	Business Communication	30	30	0	45	3	
BBCT 2232	Multimedia Systems	30	0	45	45	3	
BBSA 1201	Data Processing Skills	30	30	0	45	3	
BBSA 2203	Company Law	30	30	0	45	3	

BBSA	3204	Business Ethics	30	30	0	45	3
BECO	1101	Microeconomics I	30	30	0	45	3
BECO	1202	Macroeconomics I	30	30	0	45	3
BESB	2101	Basic Entrepreneurship	30	30	0	45	3
BFNC	2205	Financial Management	30	30	0	45	3
BMAT	1110	Business Algebra & Calculus	30	30	0	45	3
BMGT	3102	Organizational Behavior	30	30	0	45	3
BMGT	3204	Strategic Management	30	30	0	45	3

**Electives (Choose at least 3 Cr) 3**

Code	Title	LH	TH	PH	CH	CU
BFNC	2206 Risk & Insurance Management	30	30	0	45	3
BACC	2104 Managerial Accounting I	45	30	0	60	4
BBCT	1111 Fundamentals of Relational Data base Systems	30	30	0	45	3
BESB	2205 Intermediate entrepreneurship	30	30	45	60	4

**Research (6 Credits)**

Code	Title	LH	TH	PH	CH	CU
BREM	2201 Research Methods	30	30	0	45	3
BREP	3102 Research Project	0	30	90	45	3

**Industrial Attachment (6 Credits)**

Code	Title	LH	TH	PH	CH	CU
BINA	3301 Industrial Attachment	0	0	270	90	6

**Course Schedule BBA- Marketing**

**First Year 47**

**Semester One 23**

Code	Title	LH	TH	PH	CH	CU
BACC	1101 Fundamentals of Accounting I	45	30	0	60	4
BECO	1101 Microeconomics I	30	30	0	45	3
BMAT	1110 Business Algebra & Calculus	30	30	0	45	3
GECC	1101 Fundamentals of computers & Office Application	45	0	45	60	4
GECH	1101 Health Principles	30	30	0	45	3
GECL	1101 Introduction to Writing Skills	30	30	0	45	3
GECR	1101 Christian Beliefs	30	30	0	45	3

**Semester Two 24**

Code	Title	LH	TH	PH	CH	CU
BACC	1202 Fundamentals of Accounting II	45	30	0	60	4
BACM	1201 Business Communication Skills	30	30	0	45	3
BBSA	1201 Data Processing skills	30	30	0	45	3
BECO	1202 Macroeconomics I	30	30	0	45	3
BMGT	1201 Management and organization	30	30	0	45	3
GECA	1202 Principles of Sociology	30	30	0	45	3
GECS	1202 Statistics	30	30	0	45	3
GECV	1201 Motor vehicle Driving	15	0	45	30	2

**Second Year Two 42**

**Semester One 21**

Code	Title	LH	TH	PH	CH	CU
BACC	2105 Taxation	30	30	0	45	3

BBSA	2102	Mercantile Law	30	30	0	45	3
BESB	2101	Basic Entrepreneurship	30	30	0	45	3
BMKT	2103	Marketing Communication Strategy	30	30	0	45	3
BMKT	2104	Business to Business Marketing	30	30	0	45	3
BMKT	2101	Marketing Management I	30	30	0	45	3
BPSM	2101	Procurement Supply & Chain Mgt.	30	30	0	45	3
<b>Semester Two</b>							<b>21</b>
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BBCT	2232	Multimedia Systems	30	30	0	45	3
BBSA	2203	Company Law	30	30	0	45	3
BFNC	2205	Financial Management	30	30	0	45	3
BHRM	2209	Human Resource Management	30	30	0	45	3
BMKT	2202	Marketing Management II	30	30	0	45	3
BMKT	2205	Service Marketing	30	30	0	45	3
BREM	2201	Research Methods	30	30	0	45	3
<b>Summer</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BINA	3301	Industrial Attachment	0	0	270	90	6
<b>Third Year</b>							<b>42</b>
<b>Semester One</b>							<b>21</b>
<b>Elective</b>							<b>3</b>
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BBCT	3111	E-Commerce & E- Business	30	30	0	45	3
BMGT	3102	Organizational Behavior	30	30	0	45	3
BMGT	3103	International Business Admin.	30	30	0	45	3
BMGT	3105	Production Operations Management	30	30	0	45	3
BMKT	3106	Sales and Brand Management	30	30	0	45	3
BREP	3102	Research Project	30	30	0	45	3
<b>Semester Two</b>							<b>21</b>
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BBSA	3204	Business Ethics	30	30	0	45	3
BMGT	3204	Strategic Management	30	30	0	45	3
BMKT	3207	Customer Relationship Mgt	30	30	0	45	3
BMKT	3208	Retail & wholesale Marketing Mgt	30	30	0	45	3
BMKT	3209	Consumer Behavior	30	30	0	45	3
BMKT	3210	International Marketing Strategy	30	30	0	45	3
BMKT	3211	Public Relations Management	30	30	0	45	3
<b>Minor in Marketing – (Any 21 credit hours)</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BMKT	2202	Marketing Management 11	30	30	0	45	3
BMKT	2103	Marketing communication Strategy	30	30	0	45	3
BMKT	2104	Business to Business Marketing	30	30	0	45	3
BMKT	2205	Service marketing	30	30	0	45	3
BMKT	3208	Retail & Wholesale Marketing Mgt.	30	30	0	45	3
BMKT	3210	International Marketing Strategy	30	30	0	45	3
BMKT	3211	Public Relations Management	30	30	0	45	3
BMKT	3209	Consumer Behavior	30	30	0	45	3

## BACHELOR OF ENTREPRENEURSHIP & SMALL BUSINESS MANAGEMENT

<b>Course Category</b>	<b>Credits</b>
General Courses Requirements	21
Major Concentration	39
Cognate Requirements	59
Electives	3
Research	06
Industrial Attachment	06
<b>Total</b>	<b>134</b>

### General Courses (21 Credits)

Code	Title	LH	TH	PH	CH	CU
GECA 1202	Principles of Sociology	30	30	0	45	3
GECC 1101	Funds of Computers & Office Applications	30	0	45	45	4
GECH 1101	Health Principles	30	30	0	45	3
GECL 1101	Introduction to Writing Skills	30	30	0	45	3
GECS 1201	Statistics	30	30	0	45	3
GECV 1201	Motor Vehicle Driving	30	0	45	45	2
GECR 1101	Christian Beliefs	30	30	0	45	3

### Major Concentration

Code	Title	LH	TH	PH	CH	CU
BESB 2101	Basic Entrepreneurship	30	30	0	45	3
BESB 2102	Entrepreneurship Development 1	45	30	0	60	4
BESB 2203	Small Business Management	30	30	0	45	3
BESB 2204	Feasibility Study & Analysis	30	30	0	45	3
BESB 2205	Intermediate Entrepreneurship	30	0	45	45	3
BESB 2206	Financing Small Businesses	30	30	0	45	3
BESB 3107	New Venture Creation	30	30	0	45	3
BESB 3108	Entrepreneurship Development 11	45	0	45	60	4
BESB 3109	Corporate Entrepreneurship	30	30	0	45	3
BESB 3110	Creativity & Innovation	30	30	0	45	3
BESB 3111	Comparative Business Management	30	30	0	45	3
BESB 3212	Business Plan	15	30	90	60	4

### Cognate Requirements

Code	Title	LH	TH	PH	CH	CU
BACC 1101	Fundamentals of Accounting I	45	30	0	60	4
BACC 1202	Fundamentals of Accounting II	45	30	0	60	4
BACC 2104	Management Accounting	30	30	0	45	3
BACC 2105	Taxation	30	30	0	45	3
BBSA 1201	Data Processing Skills	30	30	0	45	3
BBSA 2102	Mercantile Law	30	30	0	45	3
BBSA 2203	Company Law	30	30	0	45	3
BBSA 3204	Business Ethics	30	30	0	45	3
BECO 1101	Microeconomics I	30	30	0	45	3
BECO 1202	Macroeconomics I	30	30	0	45	3
BHRM 2209	Human Resource Mgt. for Entrepreneurs	30	30	0	45	3
BMAT 1101	Business Algebra & Calculus	30	30	0	45	3

BMGT	1201	Management & Organization	30	30	0	45	3
BMGT	3102	Organizational Behavior	30	30	0	45	3
BMGT	3204	Strategic Management	30	30	0	45	3
BMGT	3205	Production & Operations Mgt	30	30	0	45	3
BMKT	2101	Marketing for Small firms	30	30	0	45	3
BMKT	3207	Customer Relationship Mgt	30	30	0	45	3
BPPG	2202	Project Planning & Management	30	30	0	45	3

**Electives (Choose at least 3 Credits)**

Code	Title	LH	TH	PH	CH	CU	
BFNC	2206	Risk & Insurance Management	30	30	0	45	3
BMGT	3103	International Business Admin.	30	30	0	45	3
BPPG	3208	Business Software application	30	30	0	45	3
BPSM	2101	Introduction to Procurement & Supply Chain Management	30	30	0	45	3
BBCT	1111	Fundamentals of Relational Database Systems	30	30	0	45	3

**Research (6 Credits)**

Code	Title	LH	TH	PH	CH	CU	
BREM	2201	Research Methods	30	30	0	45	3
BREP	3102	Research Project	0	30	90	45	3

**Industrial Attachment (6 Credits)**

Code	Title	LH	TH	PH	CH	CU	
BINA	3301	Industrial Attachment	0	00	270	90	6

**Recommended Course Schedule for Bachelor of Entrepreneurship and Small Business Management**

**First Year** **44**  
**Semester 1** **23**

Code	Title	LH	TH	PH	CH	CU	
BACC	1101	Fundamentals of Accounting I	45	30	0	60	4
BECO	1101	Microeconomics I	30	30	0	45	3
BMAT	1101	Business Algebra & Calculus	30	30	0	45	3
GECC	1101	Fund. of Computers & Office Appl.	45	30	0	60	4
GECH	1101	Health Principles	30	30	0	45	3
GECL	1101	Introduction to Writing Skills	30	30	0	45	3
GECR	1101	Christian Beliefs	30	30	0	45	3

**Semester 2** **21**

Code	Title	LH	TH	PH	CH	CU	
BACC	1202	Fundamentals of Accounting II	45	30	0	60	4
BBSA	1201	Data Processing Skills	30	30	0	45	3
BECO	1202	Macroeconomics I	30	30	0	45	3
BMGT	1201	Management & Organization	30	30	0	45	3
GECA	1202	Principles of Sociology	30	30	0	45	3
GECS	1201	Statistics	30	30	0	45	3
GECV	1201	Motor vehicle Driving	15	0	45	30	2

**Second Year** **43**

Code	Title	LH	TH	PH	CH	CU
.....	Elective	30	30	0	45	3

BACC	2104	Management Accounting	30	30	0	45	3
BACC	2105	Taxation	30	30	0	45	3
BBSA	2102	Mercantile Law	30	30	0	45	3
BESB	2101	Basic Entrepreneurship	30	0	45	45	3
BESB	2102	Entrepreneurship Development I	45	30	0	60	4
BMKT	2101	Marketing for Small Enterprises	30	30	0	45	3

### Semester 2

Code	Title	LH	TH	PH	CH	CU	
BBSA	2203	Company Law	30	30	0	45	3
BESB	2203	Small Business Management	30	30	0	45	3
BESB	2204	Feasibility Study & Analysis	30	30	0	45	3
BESB	2205	Intermediate Entrepreneurship	30	30	0	45	3
BESB	2206	Financing Small Enterprises	30	30	0	45	3
BHRM	2209	Human Resource Mgt for Entrepreneurs.	30	30	0	45	3
BREM	2201	Research Methods	30	30	0	45	3

### Summer

Code	Title	LH	TH	PH	CH	CU	
BINA	3301	Industrial Attachment	0	0	270	90	6

### Third Year

#### Semester 1

Code	Title	LH	TH	PH	CH	CU	
BESB	3107	New Venture Creation	30	30	0	45	3
BESB	3108	Entrepreneurship Development II	45	0	45	60	4
BESB	3109	Creativity & Innovation	30	30	0	45	3
BESB	3110	Corporate Entrepreneurship	30	30	0	45	3
BMGT	3102	Organizational Behavior	30	30	0	45	3
BREP	3102	Research Project	30	30	0	45	3

#### Semester 2

Code	Title	LH	TH	PH	CH	CU	
BESB	3111	Comparative Business Management	30	30	0	45	3
BESB	3212	Business Plan Development	45	30	45	60	4
BESB	3213	Entrepreneurial Ethics	30	30	0	45	3
BMGT	3204	Strategic Management	30	30	0	45	3
BMGT	3205	Production Operations Management	30	30	0	45	3
BMKT	3207	Customer Relationship Management	30	30	0	45	3
BPPG	2202	Project Planning & Management	30	30	0	45	3

### Minor in Entrepreneurship (Any 21 Credit Hours)

Code	Title	LH	TH	PH	CH	CU	
BESB	2102	Entrepreneurship Development 1	45	30	0	60	4
BESB	2203	Small Business Management	30	30	0	45	3
BESB	2204	Feasibility Study & Analysis	30	30	0	45	3
BESB	2205	Intermediate Entrepreneurship	30	0	45	45	3
BESB	3106	New Venture Creation	30	30	0	45	3
BESB	3107	Project Planning & Management	30	30	0	45	3
BESB	3108	Entrepreneurship Development 11	45	0	45	60	4
BESB	3109	Corporate Entrepreneurship	30	30	0	45	3
BESB	3110	Creativity & Innovation	30	30	0	45	3

## BACHELOR OF BUSINESS ADMINISTRATION IN MANAGEMENT 3 YEAR PROGRAM

### Degree Requirement Summary

Course Category	Credits
General Courses Requirements	21
Major concentration	62
Cognates	30
Electives	6
Research	6
Industrial Attachment	6
<b>Total</b>	<b>131</b>

### General Courses

Code	Title	LH	TH	PH	CH	CU
GECA 1202	Principles of Sociology	30	30	0	45	3
GECC 1101	Funds of Computer & Office Applications	45	0	45	60	4
GECG 1101	Introduction to Writing Skills	30	30	0	45	3
GECH 1101	Health Principles	30	30	0	45	3
GECR 1101	Christian Beliefs	30	30	0	45	3
GECS 1202	Statistics	30	30	0	45	3
GECV 1201	Motor vehicle Driving	30	0	45	45	2

### Major Concentration

Code	Title	LH	TH	PH	CH	CU
BACC 1101	Fundamentals of Accounting I	45	30	0	60	4
BACC 1202	Fundamentals of Accounting II	45	30	0	60	4
BACC 2104	Managerial Accounting I	30	30	0	45	3
BACC 2105	Taxation	30	30	0	45	3
BECO 3104	Managerial Economics	45	30	0	60	3
BFNC 2205	Financial management	30	30	0	45	3
BFNC 2206	Risk and Insurance Management	30	30	0	45	3
BHRM 2209	Human Resource Management	30	30	0	45	3
BMGT 1201	Management & Organization	30	30	0	45	3
BMGT 3102	Organizational Behaviour	30	30	0	45	3
BMGT 3103	International business Management	30	30	0	45	3
BMGT 3204	Strategic Management	30	30	0	45	3
BHRM 2206	Organizational Change & Dev't	30	30	0	45	3
BMKT 2101	Marketing management I	30	30	0	45	3
BMKT 2202	Marketing Management II	30	30	0	45	3
BMKT 3108	Sales & Brand Management	30	30	0	45	3
BMKT 3207	Customer Relationship Management	30	30	0	45	3
BMKT 3214	Public Relations Management	30	30	0	45	3
BPOM 3202	Production Operations Management	30	30	0	45	3
BPSM 2101	Procurement & Supply Chain Mgt.	30	30	0	45	3

### Cognate Requirements

Code	Title	LH	TH	PH	CH	CU
BACM 1201	Business Communication	30	30	0	45	3
BBSA 1201	Data processing Skills	30	0	45	45	3
BBSA 2102	Mercantile Law	30	30	0	45	3



BBSA	2203	Company Law	30	30	0	45	3
BBSA	3204	Business Ethics	30	30	0	45	3
BECO	1101	Micro Economics I	30	30	0	45	3
BECO	1202	Macro Economics	30	30	0	45	3
BESB	2101	Basic Entrepreneurship	30	0	45	45	3
BMAT	1101	Business Algebra & Calculus	30	30	0	45	3
BFNC	2103	Business Finance & Investments	30	30	0	45	3

**Electives (Choose at least 06 Cr)**

Code	Title	LH	TH	PH	CH	CU	
BBCT	3111	E-Commerce & E-Business	30	30	0	45	3
BBCT	1111	Fundamentals of Relational Database	30	30	0	45	3
BECO	2203	Monetary Economics	30	30	0	45	3
BESB	2205	Intermediate Entrepreneurship	30	30	45	60	4

**Research (6 Credits)**

Code	Title	LH	TH	PH	CH	CU	
BREM	2201	Research Methods	30	30	0	45	3
BREP	3102	Research Project	0	30	90	45	3

**Industrial Attachment**

Code	Title	LH	TH	PH	CH	CU	
BINA	3301	Industrial Attachment	0	0	270	90	6

**Recommended Schedule for Bachelor of Business Administration in Management**

**First Year**

**Semester 1**

Code	Title	LH	TH	PH	CH	CU	
BACC	1101	Fundamentals of Accounting I	45	30	0	60	4
BECO	1101	Microeconomics	30	30	0	45	3
BMAT	1101	Business Algebra & Calculus	30	30	0	45	3
GECC	1101	Fund of Computers & Office Applications	45	0	45	60	4
GECH	1101	Health Principles	30	30	0	45	3
GECL	1101	Introduction to Writing Skills	30	30	0	45	3
GECR	1101	Christian Beliefs	30	30	0	45	3

**Semester 2**

Code	Title	LH	TH	PH	CH	CU	
BACC	1202	Fundamentals of Accounting II	45	30	0	60	4
BACM	1201	Business Communication	30	30	0	45	3
BBSA	1201	Data processing Skills	30	0	45	45	3
BECO	1202	Macroeconomics	30	30	0	45	3
BMGT	1201	Management & Organization	30	30	0	45	3
GECA	1202	Principles of Sociology	30	30	0	45	3
GECS	1202	Statistics	30	30	0	45	3

**Second Year**

**Semester 1**

Code	Title	LH	TH	PH	CH	CU	
BACC	2104	Management Accounting I	30	30	0	45	3
BACC	2105	Taxation	30	30	0	45	3

BBSA	2102	Mercantile Law	30	30	0	45	3
BESB	2101	Basic Entrepreneurship	30	0	45	45	3
BFNC	2103	Business Finance & Investments	30	30	0	45	3
BMKT	2101	Marketing Management I	30	30	0	45	3

**Semester 2**

Code	Title	LH	TH	PH	CH	CU	
BBSA	2203	Company Law	30	30	0	45	3
BFNC	2205	Financial Management	30	30	0	45	3
BFNC	2206	Risk & Insurance	30	30	0	45	3
BHRM	2209	Human Resource Management	30	30	0	45	3
BREM	2201	Research Methods	30	30	0	45	3
MKTG	2202	Marketing Management II	30	30	0	45	3

**18****Summer**

Code	Title	LH	TH	PH	CH	CU	
BINA	3301	Industrial Attachment	0	0	270	90	6

**Third Year**

Code	Title	LH	TH	PH	CH	CU	
	Elective	30	30	0	45	3	
BECO	3104	Managerial Economics	30	30	0	45	3
BMGT	3102	Organizational Behaviour	30	30	0	45	3
BMGT	3103	International managements	30	30	0	45	3
BMKT	3108	Sales & Brand Management	30	30	0	45	3
BPSM	2101	Procurement & Supply management	30	30	0	45	3
BREP	3102	Research Project	0	30	90	45	3

**42****Semester 1****21****Semester 2**

Code	Title	LH	TH	PH	CH	CU	
BMKT	3214	Public Relations Management	30	30	0	45	3
BMGT	3204	Strategic Management	30	30	0	45	3
	Elective	30	30	0	45	3	
BHRM	2206	Organizational Change & Dev't	30	30	0	45	3
BBSA	3204	Business Ethics	30	30	0	45	3
BMKT	3207	Customer Relationship Mgt	30	30	0	45	3
BPOM	3202	Production Operations Management	30	30	0	45	3

**21****Minor in Management – (Any 21 credit hours)**

Code	Title	LH	TH	PH	CH	CU	
BFNC	2205	Financial management	30	30	0	45	3
BFNC	2206	Risk and Insurance Management	30	30	0	45	3
BMGT	3204	Strategic Management	30	30	0	45	3
BHRM	2206	Organizational Change & Dev't	30	30	0	45	3
BMKT	2202	Marketing Management II	30	30	0	45	3
BMKT	3214	Public Relations Management	30	30	0	45	3
BPPG	2202	Project Monitoring & Evaluation	30	30	0	45	3
BPSM	3101	Procurement Management	30	30	0	45	3

## BACHELOR OF PROCUREMENT AND SUPPLY CHAIN MANAGEMENT

### Degree Requirement Summary

Course Category	Credits
General Courses Requirements	21
Major Concentration	49
Cognate Requirements	44
Electives	6
Research	6
Industrial Attachment	6
<b>Total</b>	<b>132</b>

### General courses (21)

Code	Title	LH	TH	PH	CH	CU
GECR 1101	Christian Beliefs	30	30	0	45	3
GECH 1101	Health Principles	30	30	0	45	3
GECL 1101	Introduction to Writing Skills	30	30	0	45	3
GECC 1101	Fundamentals of Computers and Office Application	45	0	45	60	4
GECS 1202	Statistics	30	30	0	45	3
GECA 1202	Principles of Sociology	30	30	0	45	3
GECV 1201	Motor Vehicle Driving	15	0	45	30	2

### Major Concentration

Code	Title	LH	TH	PH	CH	CU
BPSM 2101	Intro. to Procurement & Supply Chain Mgt	30	30	0	45	3
BPSM 2102	Logistics & Supply Chain Processes	30	30	0	45	3
BPSM 2203	Procurement Records Management	30	30	0	45	3
BPSM 2204	Managing Relationships and Negotiations.	30	30	0	45	3
BPSM 3106	Public Procurement	30	30	0	45	3
BPSM 2205	Procurement Ethics & Governance	30	30	0	45	3
BPSM 3107	Procurement & Supply Chain Risks	30	30	0	45	3
BPSM 3108	Procurement Audit & Investigations	30	30	0	45	3
BPSM 3109	E & International Procurement	45	30	0	60	4
BPSM 3110	Procurement Legal Framework	30	30	0	45	3
BPSM 3111	Contracts and Dispute Management	30	30	0	45	3
BPSM 3212	Strategic Procurement Management	30	30	0	45	3
BPSM 3213	Sustainable Supply Chain Mgt	30	30	0	45	3
BPSM 3214	Performance Management in Procurement & Purchasing	30	30	0	45	3
BPSM 3215	Inventory and Ware house Mgt	30	30	0	45	3
BPSM 3216	Transport Policy & Planning	30	30	0	45	3

### Cognate Requirements

Code	Title	LH	TH	PH	CH	CU
BACC 1101	Fundamentals of Accounting I	45	30	0	60	4
BACC 1202	Fundamentals of Accounting II	45	30	0	60	4
BMGT 1201	Management & Organization	30	30	0	45	3
BECO 1101	Microeconomics I	30	30	0	45	3

BECO	1202	Macroeconomics I	30	30	0	45	3
BBSA	1201	Data Processing Skills	30	30	0	45	3
BMKT	2101	Marketing Management I	30	30	0	45	3
BACC	2105	Taxation	30	30	0	45	3
BBSA	2102	Mercantile Law	30	30	0	45	3
BESB	2101	Basic Entrepreneurship	30	0	45	45	3
BMAT	1101	Business Algebra & Calculus	30	30	0	45	3
BMKT	3207	Customer Relationship Management	30	30	0	45	3
BHRM	2209	Human Resource Management	30	30	0	45	3
BFNC	2206	Risk & Insurance in Purchasing	30	30	0	45	3

**Electives (Choose at least 6 Cr)**

Code	Title	LH	TH	PH	CH	CU	
BECO	2203	Managerial Economics	30	30	0	45	3
BMGT	3103	International Business Admin.	30	30	0	45	3
BBSA	2203	Company Law	30	30	0	45	3
BESB	2205	Intermediate Entrepreneurship	30	30	0	45	3
BFNC	2205	Financial Management	30	30	0	45	3

**Research (6 Credits)**

Code	Title	LH	TH	PH	CH	CU	
BREM	2201	Research Methodology	30	30	0	45	3
BREP	3102	Business Project	0	30	90	45	3

**Industrial Attachment (6 Credits)**

Code	Title	LH	TH	PH	CH	CU	
BINA	3301	Industrial Attachment	0	0	270	90	6

**Recommended Course Schedule Bachelor of Procurement & Supplies Chain Management:****First Year**

Semester 1							44
Code	Title	LH	TH	PH	CH	CU	
GECH	1101	Health Principles	30	30	0	45	3
GECC	1101	Fundamentals of computers & Office Application	45	0	45	60	4
BECO	1101	Microeconomics I	30	30	0	45	3
BACC	1101	Fundamentals of Accounting I	45	30	0	60	4
GEGR	1101	Christian Beliefs	30	30	0	45	3
GECL	1101	Introduction to Writing Skills	30	30	0	45	3
BMAT	1101	Business Algebra & Calculus	30	30	0	45	3

**Semester 2**

Semester 2							21
GECA	1202	Principles of Sociology	30	30	0	45	3
BACC	1202	Fundamentals of Accounting II	45	30	0	60	4
BMGT	1201	Management & Organization	30	30	0	45	3
BBSA	1201	Data Processing Skills	30	30	0	45	3
BECO	1202	Macroeconomics I	30	30	0	45	3
GECS	1202	Statistics	30	30	0	45	3
GECV	1201	Motor Vehicle Driving	15	0	45	30	2

<b>Second Year</b>					<b>39</b>		
<b>Semester 1</b>					<b>18</b>		
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BMKT	2101	Marketing Management I	30	30	0	45	3
BACC	2105	Taxation	30	30	0	45	3
BESB	2101	Basic Entrepreneurship	30	0	45	45	3
BPSM	2102	Logistics & Supply Chain Processes	30	30	0	45	3
BPSM	2101	Intro Procurement & Supply Chain Mgt	30	30	0	45	3
BBSA	2102	Mercantile Law	30	30	0	45	3
<b>Semester 2</b>					<b>21</b>		
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BHRM	2209	Human Resource Management	30	30	0	45	3
BPSM	2205	Procurement Ethics & Governance	30	30	0	45	3
BFNC	2206	Risk & Insurance in Purchasing	30	30	0	45	3
BREM	2201	Research Methodology	30	30	0	45	3
BPSM	2203	Procurement Records Management	30	30	0	45	3
BPSM	2204	Managing Relationships and Negotiations	30	30	0	45	3
		Elective					3
<b>Summer</b>					<b>6</b>		
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BINA	3301	Industrial Attachment	0	0	270	90	6
<b>Third Year</b>					<b>43</b>		
<b>Semester 1</b>					<b>22</b>		
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BPSM	3106	Public Procurement Management	30	30	0	45	3
BPSM	3109	E & International Procurement	45	30	0	60	4
BPSM	3107	Procurement & Supply Chain Risks	30	30	0	45	3
BPSM	3110	Procurement Legal Framework	30	30	0	45	3
BREP	3102	Research Project	0	30	90	45	3
BPSM	3108	Procurement Audit & Investigations	30	30	0	45	3
BPSM	3111	Contracts and Dispute Management	30	30	0	45	3
<b>Semester 2</b>					<b>21</b>		
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BMKT	3207	Customer Relationship Mgt	30	30	0	45	3
BPSM	3212	Strategic Procurement Mgt	30	30	0	45	3
BPSM	3213	Sustainable Supply Chain Mgt	30	30	0	45	3
BPSM	3214	Performance Management in Procurement & purchasing	30	30	0	45	3
...	....	Elective Course	30	30	0	45	3
BPSM	3215	Inventory & Warehouse Mgt	30	30	0	45	3
BPSM	3216	Transport Policy & Planning	30	30	0	45	3

**Minor In Procurement & Supply Chain Management (Any 21 Credit Hours)**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BPSM 2101	Intro. to Procurement & Supply Chain Mngt	30	30	0	45	3
BPSM 2102	Logistics & supply chain processes	30	30	0	45	3
BPSM 2204	Procurement Records Management	30	30	0	45	3
BPSM 2205	Managing Relationships and Negotiations	30	30	0	45	3
BPSM 3107	Public Procurement	30	30	0	45	3
BPSM 2206	Procurement Ethics & Governance	30	30	0	45	3
BPSM 3108	Procurement & Supply Chain Risks	30	30	0	45	3
BPSM 3109	Procurement Audit & Investigations	30	30	0	45	3
BPSM 3110	E & International Procurement	45	30	0	60	4
BPSM 3111	Procurement Legal Framework	30	30	0	45	3
BPSM 3112	Contracts and Dispute Management	30	30	0	45	3
BPSM 3214	Sustainable Supply Chain Mgt	30	30	0	45	3

**BACHELOR OF HOTEL & HOSPITALITY MANAGEMENT****Degree Requirement Summary**

<b>Course Category</b>	<b>Credits</b>
General Courses Requirements	21
Major Concentration	48
Cognates Requirements	46
Electives	03
Research	06
Industrial Attachment	06
<b>Total</b>	<b>130</b>

**General Courses**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECL 1101	Christian Beliefs	30	30	0	45	3
GECH 1101	Health Principles	30	30	0	45	3
GECC 1101	Fundamentals of Computers and Office Application	45	0	45	60	4
GECG 1101	Introduction to Writing Skills	30	30	0	60	3
GECS 1202	Statistics & Probability	30	30	0	60	3
GECA 1202	Principles of Sociology	30	30	0	60	3
GECV 1201	Motor Vehicle Driving	15	0	45	30	2

**Major Concentration**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	<b>48</b>
BHHM 1201	Tourism Management	30	30	0	45	3	
BHHM 2102	Fundamental of Catering & Hotel Mgt	30	30	0	45	3	
BHHM 2103	Hospitality Facilities Management	30	30	0	45	3	
BHHM 2104	Ethics in Hospitality	30	30	0	45	3	
BHHM 2205	Hotel & Catering Law	30	30	0	45	3	
BHHM 2206	Food & Beverage Service I	30	30	0	45	3	
BHHM 2207	Accommodation Operations	30	30	0	45	3	
BHHM 2208	Front Office Management	30	30	0	45	3	
BHHM 3109	Food Production I	30	30	10	45	3	
BHHM 3110	Nutrition & Dietetics	30	30	0	45	3	
BHHM 3111	Food & Beverage Service II	30	30	0	45	3	
BHHM 3112	Housekeeping, Hygiene & Sanitation	30	30	0	45	3	
BHHM 3213	African Cuisine	30	30	0	45	3	
BHHM 3214	Food Production II	30	30	10	45	3	
BHHM 3215	Food Science & Nutrition	30	30	0	45	3	
BHHM 3216	Food & Beverage Cost Control	30	30	0	45	3	

**Cognates****Cognate Requirements**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	<b>46</b>
BACC 1101	Fundamentals of Accounting 1	45	30	0	60	4	
BECO 1101	Microeconomics I	30	30	0	45	3	
BECO 1202	Macroeconomics I	30	30	0	45	3	
BBSA 1201	Data Processing Skills	30	30	0	45	3	
BHRM 2209	Human Resource Management	30	30	0	45	3	
BESB 2101	Basic Entrepreneurship	30	30	0	45	3	

BMKT	2101	Marketing Management I	30	30	0	45	3
BMAT	1101	Business Algebra & Calculus	30	30	0	45	3
BMGT	3102	Organizational Behavior	30	30	0	45	3
BMKT	3209	Consumer Behavior	30	30	0	45	3
BFNC	2205	Financial Management	30	30	0	45	3
BMKT	3207	Customer Relationship Management	30	0	0	45	3
BMGT	3204	Strategic Management	30	30	0	45	3
BACM	1201	Business Communication Skills	30	30	0	45	3
BBCT	1111	Fundamentals of Relational Database Systems	30	30	0	45	3

**Electives (Choose at least 3 Cr)** 3

Code	Title	LH	TH	PH	CH	CU	
BBCT	3111	E-Commerce & E- Business	30	30	0	45	3
BBSA	2203	Company Law	45	30	0	60	4
BMKT	2205	Service Marketing	30	30	0	45	3
BESB	2205	Intermediate entrepreneurship	30	30	45	60	4
BACC	1202	Fundamentals of Accounting 11	45	30	0	60	4

**Research (6 Credits)**

Code	Title	LH	TH	PH	CH	CU	
BSEM	2201	Research Methodology	30	30	0	45	3
BREP	3102	Business Project	0	30	90	45	3

**Industrial Attachment (6 Credits)**

Code	Title	LH	TH	PH	CH	CU	
BINA	3301	Industrial Attachment	0	00	270	90	6

**Recommended Course Schedule**

**First Year** 43

**Semester One** 23

Code	Title	LH	TH	PH	CH	CU	
GECH	1101	Health Principles	30	30	0	45	3
GECC	1101	Fundamentals of computers & Office Application	45	0	45	60	4
BECO	1101	Microeconomics I	30	30	0	45	3
BACC	1101	Fundamentals of Accounting I	45	30	0	60	4
GECL	1101	Christian Beliefs	30	30	0	45	3
GECG	1101	Introduction to Writing Skills	30	30	0	45	3
BMAT	1101	Business Algebra & Calculus	30	30	0	45	3

**Semester Two** 20

Code	Title	LH	TH	PH	CH	CU	
GECS	1202	Statistics and Probability	30	30	0	45	3
GECA	1202	Principles of Sociology	30	30	0	45	3
GECV	1201	Motor vehicle Driving	15	0	45	30	2
BECO	1202	Macroeconomics I	30	30	0	45	3
BHHM	1201	Tourism Management	45	30	0	60	3
BBSA	1201	Data Processing skills	30	30	0	45	3
BACM	1201	Business Communication Skills	30	30	0	45	3



<b>Second Year</b>							<b>42</b>
<b>Semester One</b>							<b>21</b>
<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BESB 2101	Basic Entrepreneurship	30	30	0	45	3	
BHHM 2102	Fundamental of Catering & Hotel Mgt	30	30	0	45	3	
BHHM 2103	Hospitality Facilities Management	30	30	0	45	3	
.....	Elective	30	30	0	45	3	
BMKT 2101	Marketing Management 1	30	30	0	45	3	
BHHM 2104	Ethics in Hospitality	30	30	0	45	3	
BBCT 1111	Fundamentals of Relational Database Systems	30	30	0	45	3	
<b>Semester Two</b>							<b>21</b>
<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BREM 2201	Research Methodology	30	30	0	45	3	
BHHM 2205	Hotel & Catering Law	30	30	0	45	3	
BHRM 2209	Human Resource Management	30	30	0	45	3	
BHHM 2208	Front Office Management	30	30	0	45	3	
BHHM 2206	Food & Beverage Service I	30	30	0	45	3	
BFNC 2205	Financial Management	30	30	0	45	3	
BHHM 2207	Accommodation Operations	30	30	0	45	3	
<b>Summer</b>							
<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BINA 3301	Industrial Attachment	0	0	270	90	6	
<b>Third Year</b>							<b>42</b>
<b>Semester One</b>							<b>18</b>
<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BHHM 3109	Food Production I	30	30	0	45	3	
BMGT 3102	Organizational Behavior	30	30	0	45	3	
BHHM 3110	Nutrition & Dietetics	30	30	0	45	3	
BREP 3102	Research Project	30	30	0	45	3	
BHHM 3111	Food & Beverage Service II	30	30	0	45	3	
BHHM 3112	Housekeeping, Hygiene & Sanitation	30	30	0	45	3	
<b>Semester Two</b>							<b>21</b>
<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BHHM 3215	Food Science & Nutrition	30	30	0	45	3	
BMKT 3207	Customer Relationship Mgt	30	30	0	45	3	
BMKT 3209	Consumer Behavior	30	30	0	45	3	
BMGT 3204	Strategic Management	30	30	0	45	3	
BHHM 3216	Food & Beverage Cost Control	30	30	0	45	3	
BHHM 3213	African Cuisine	30	30	0	45	3	
BHHM 3214	Food Production II	30	30	0	45	3	

## BACHELOR OF BUSINESS ADMINISTRATION IN PROJECT PLANNING & GRANT MANAGEMENT

### Degree Requirement Summary

<b>Course Category</b>	<b>Credits</b>
General Courses Requirements	21
Major Concentration	60
Cognate Requirements	35
Electives	6
Research	6
Industrial Attachment	6
<b>Total</b>	<b>134</b>

### General Courses

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECR 1101	Christian Beliefs	30	30	0	45	3
GECH 1101	Health Principles	30	30	0	45	3
GECC 1101	Fundamentals of Computers & Office Application	45	0	45	60	4
GECG 1101	Introduction to Writing Skills	30	30	0	45	3
GECS 1202	Statistics	30	30	0	45	3
GECA 1202	Principles of Sociology	30	30	0	45	3
GECV 1201	Motor Vehicle Driving	15	0	45	30	2

### Major Concentration

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BPPG 2101	Proposal Writing & Fundraising	30	30	0	45	3
BPPG 2202	Project Planning & Management	30	30	0	45	3
BPPG 3104	Project monitoring & Evaluation	30	30	0	45	3
BPPG 2203	Environmental Impact Assessment in Projects	30	30	0	45	3
BPPG 3105	Managing Donor Relations & Partnerships	30	30	0	45	3
BPPG 3106	Project Resource Mobilization	30	30	0	45	3
BPPG 3107	Project Management Info. System	30	30	0	45	3
BPPG 3208	Strategic Project Planning and Mgt	30	30	0	45	3
BPPG 3209	Software Applications to projects & grants	30	30	0	45	3
BPPG 3210	Advanced Project Planning, Design & Implementation	30	30	0	45	3
BACC 2104	Management Accounting I	30	30	0	45	3
BACC 2207	Managerial Accounting II	30	30	0	45	3
BACC 2107	Taxation	30	30	0	45	3
BFNC 2205	Financial Management	30	30	0	45	3
BFNC 2206	Risk & Insurance Management	30	30	0	45	3
BFNC 3203	Investment Analysis & Portfolio Mgt	30	30	0	45	3
BBSA 2102	Mercantile Law	30	30	0	45	3
BMGT 3102	Organizational Behavior	30	30	0	45	3
BMGT 3206	Mgt of Non Profit Organizations	30	30	0	45	3
BMKT 2101	Marketing Management I	30	30	0	45	3

<b>Cognate Requirements</b>					<b>35</b>		
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BACC	1101	Fundamentals of Accounting I	45	30	0	60	4
BACC	1202	Fundamentals of Accounting II	45	30	0	60	4
BECO	1101	Microeconomics I	30	30	0	45	3
BECO	1202	Macroeconomics I	30	30	0	45	3
BMAT	1101	Business Algebra & Calculus	30	30	0	45	3
BESB	2101	Basic Entrepreneurship	30	30	0	45	3
BBSA	1201	Data Processing Skills	30	30	0	45	3
BMGT	1201	Management & Organization	30	30	0	45	3
BMGT	3103	International Business Admin.	30	30	0	45	3
BMKT	3207	Customer Relationship Mgt	30	30	0	45	3
BPSM	2101	Intro. to Procurement & Supply Chain Management	30	30	0	45	3

**Electives (Choose at least 6 Cr)**

<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BBSA	3205	Ethics & Legal Issues in Project Mgt	30	30	0	45	3
BESB	2205	Intermediate Entrepreneurship	30	30	0	45	3
BPSM	2103	Logistics and Supply Chain Processes	30	30	0	45	3
BBCT	3111	E Commerce & E Business	30	30	0	45	3
BBCT	1111	Fund. of Relational Database Systems	30	30	0	45	3
BBSA	2203	Company law	30	30	0	45	3

**Research (6 Credits)**

<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BREM	2201	Research Methods	30	30	0	45	3
BREP	3102	Research Project	0	30	90	45	3

**Industrial Attachment (6 Credits)**

<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BINA	3301	Industrial Attachment	0	0	270	90	6

**First Year****Semester One**

<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECH	1101	Health Principles	30	30	0	45	3
GECC	1101	Fundamentals of computers & Office Application	45	0	45	60	4
BECO	1101	Microeconomics I	30	30	0	45	3
BACC	1101	Fundamentals of Accounting I	45	30	0	60	4
GECR	1101	Christian Beliefs	30	30	0	45	3
GECL	1101	Introduction to Writing Skills	30	30	0	45	3
BMAT	1101	Business Algebra	30	30	0	45	3

**Semester Two**

<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECS	1202	Statistics	30	30	0	45	3
GECA	1202	Principles of sociology	30	30	0	45	3
GECV	1202	Motor vehicle Driving	30	0	45	30	2
BECO	1202	Macroeconomics I	30	30	0	45	3
BACC	1202	Fundamentals of Accounting II	45	30	0	60	4
BBSA	1201	Data Processing skills	30	30	0	45	3
BMGT	1201	Management and organization	30	30	0	45	3

<b>Second Year</b>					<b>42</b>		
<b>Semester 1</b>					<b>21</b>		
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BMKT	2101	Marketing Management I	30	30	0	45	3
BESB	2101	Basic Entrepreneurship	30	30	0	45	3
BPPG	2101	Proposal Writing & Fundraising	30	30	0	45	3
BBSA	2102	Mercantile Law	30	30	0	45	3
BACC	2104	Management Accounting I	30	30	0	45	3
BACC	2107	Taxation	30	30	0	45	3
BPSM	2101	Intro. to Procurement & Supply Chain Management	30	30	0	45	3
<b>Semester 2</b>					<b>21</b>		
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BFNC	2206	Risk & Insurance Management	30	30	0	45	3
BFNC	2202	Financial Management	30	30	0	45	3
BPPG	2202	Project Planning & Management	30	30	0	45	3
BACC	2207	Managerial Accounting II	30	30	0	45	3
BREM	2201	Research Methods	30	30	0	45	3
<b>Elective</b>					<b>3</b>		
BPPG	2203	Environmental Impact Assessment in Projects	30	30	0	45	3
<b>Summer</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BINA	3301	Industrial Attachment	0	0	270	90	6
<b>Third Year</b>					<b>42</b>		
<b>Semester 1</b>					<b>21</b>		
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BREP	3102	Research Project	30	30	0	45	3
BPPG	3106	Project Resource Mobilization	30	30	0	45	3
BPPG	3105	Managing Donor Relations & Partnerships	30	30	0	45	3
BMGT	3103	International Business Admin.	30	30	0	45	3
BMGT	3102	Organizational Behavior	30	30	0	45	3
BPPG	3107	Project Management Info. System	30	30	0	45	3
BBSA	3104	Project Monitoring & Evaluation	30	30	0	45	3
<b>Semester 2</b>					<b>21</b>		
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BPPG	3208	Strategic Project Planning & Mgt	30	0	45	45	3
BPPG	3208	Software Applications to projects & grants	30	0	45	45	3
BMKT	3207	Customer Relationship Mgt	30	0	45	45	3
BMGT	3206	Mgt of Non Profit Organizations	30	0	45	45	3
BFNC	3203	Investment Analysis & Portfolio Mgt	30	0	45	45	3
<b>Elective</b>							
BPPG	3210	Advanced Project Planning, Design & Implementation	30	0	45	45	3

## BACHELOR OF SECRETARIAL STUDIES AND OFFICE ADMINISTRATION

### Degree Requirement Summary

Course Category	Credits
General Courses Requirements	21
Major concentration	45
Cognates	55
Electives	3
Research	6
Industrial Attachment	6
<b>Total</b>	<b>136</b>

### General Courses

Code	Title	LH	TH	PH	CH	CU	21
GECR 1101	Christian Beliefs	30	30	0	45	3	
GECH 1101	Health Principles	30	30	0	45	3	
GECC 1101	Funds of Computer & Office Applications	45	0	45	60	4	
GECL 1101	Introduction to Writing Skills	30	30	0	45	3	
GECS 1202	Statistics	30	30	0	45	3	
GECA 1202	Principles of Sociology	30	30	0	45	3	
GECV 1201	Motor vehicle Driving	15	0	45	30	2	

### Major Concentration

Code	Title	LH	TH	PH	CH	CU	45
BBSA 1201	Data Processing Skills	45	0	45	60	3	
BOFA 2101	Keyboard Skills I	45	0	45	60	4	
BOFA 2102	Spread Sheet	45	0	45	60	4	
BOFA 2103	Principles of Pitman's Shorthand I	45	0	45	60	4	
BOFA 2204	Principles of Records Management	30	30	0	45	3	
BOFA 2205	Key board Skills II	45	0	45	60	4	
BOFA 2206	Shorthand II- Speed Development (80-100 wpm)	45	0	45	60	4	
BOFA 2207	Corporate Secretarial Practice	30	30	0	45	3	
BOFA 3108	Desktop Publishing	45	0	45	60	4	
BOFA 3109	Secretarial Duties & Ethics	30	30	0	45	3	
BOFA 3210	Stress & Time Management	30	30	0	45	3	
BOFA 3211	Office Organization & Management	30	30	0	45	3	
BOFA 3212	Personality & Professional Dev't	30	30	0	45	3	

### Cognate Requirements

Code	Title	LH	TH	PH	CH	CU	55
BACC 1101	Fundamentals of Accounting 1	45	30	0	60	4	
BBCT 1111	Fundamentals of Relational Database systems & Management	30	30	0	45	3	
BJMF 1202	Business French	30	30	0	45	3	
BJMK 1202	Business Kiswahili	30	30	0	45	3	
BPAM 2101	Public Administration	30	30	0	45	3	
BPAM 3113	Administrative Law	30	30	0	45	3	
BSPC 1101	Introduction to Psychology	30	30	0	45	3	
BSWA 1102	Introduction to Social Administration	30	30	0	45	3	

BMAT	1101	Business Algebra & Calculus	30	30	0	45	3
BECO	1101	Microeconomics 1	30	30	0	45	3
BESB	2101	Basic Entrepreneurship	30	30	0	45	3
BMGT	3104	Organizational Behaviour	30	30	0	45	3
BMGT	1201	Management & Organisation	30	30	0	45	3
BHRM	2209	Human Resource Management	30	30	0	45	3
BHRM	3215	Advanced Human Resource Mgt	30	30	0	45	3
BMGT	3208	Strategic Management	30	30	0	45	3
BACM	1201	Business Communication Skills	30	30	0	45	3
BMKT	3207	Customer Relationship Management	30	30	0	45	3

**Electives Requirements (Choose at least 3 Cr)**

Code	Title	LH	TH	PH	CH	CU	
BOFA	3214	Audio Typing	30	0	45	45	3
BBCT	2216	Multimedia Systems	30	0	45	45	3
BBCT	3117	E- Commerce & E- Business	30	0	45	45	3
BSCT	1214	Programming Using VB Net	30	0	45	45	3
BBCT	2213	Internet & Web Programming	30	0	45	45	3
BENT	3102	Intermediate Entrepreneurship	30	0	45	45	3

**Research(6 credits)**

Code	Title	LH	TH	PH	CH	CU	
BREM	2201	Research Methods	30	30	0	45	3
BREP	3102	Research Project	30	30	0	45	3

**Industrial Attachment (6 credits) Summer**

Code	Title	LH	TH	PH	CH	CU	
BINA	2301	Office Practicum I	0	0	3	0	3
BINA	3302	Office Practicum II	0	0	3	0	3

**Recommended Schedule for Bachelor of Secretarial Studies and Office Administration****First Year** **40**

<b>Semester One</b>		<b>23</b>					
Code	Title	LH	TH	PH	CH	CU	
BACC	1101	Fundamentals of Accounting I	45	30	0	60	4
BECO	1101	Microeconomics I	30	30	0	45	3
BMAT	1101	Business Algebra	30	30	0	45	3
GECC	1101	Fundamentals of computers & Office Application	45	0	45	60	4
GECH	1101	Health Principles	30	30	0	45	3
GECL	1101	Introduction to Writing Skills	30	30	0	45	3
GECR	1101	Christian Beliefs	30	30	0	45	3

<b>Semester Two</b>		<b>17</b>					
Code	Title	LH	TH	PH	CH	CU	
BACM	1201	Business Communication Skills	30	30	0	45	3
BBSA	1201	Data Processing skills	30	30	0	45	3
BMGT	1201	Management and Organization	30	30	0	45	3
GECA	1202	Principles of Sociology	30	30	0	45	3
GECS	1202	Statistics	30	30	0	45	3
GECV	1201	Motor vehicle Driving	15	0	45	30	2

<b>Second Year</b>						<b>47</b>
<b>Semester One</b>						<b>24</b>
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BOFA	2103	Principles of Pitman's Shorthand I	30	30	0	45 4
BOFA	2101	Key board skills / Doc. processing I	45	0	45	60 4
BOFA	2102	Spread Sheet	45	0	45	60 4
BPAM	2101	Introduction to Public Admin.	30	30	0	45 3
BPAM	3113	Administrative law	30	30	0	45 3
BSPC	1101	Introduction to Psychology	30	30	0	45 3
BESB	2101	Basic Entrepreneurship I	30	30	0	45 3

<b>Semester Two</b>						<b>23</b>
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BHRM	2209	Human Resource Management	30	30	0	45 3
BJMF	1203	Business Kiswahili	30	30	0	45 3
BOFA	2206	Short hand II – Speed Development (80-100 wpm)	45	0	45	60 4
BOFA	2207	Corporate Secretarial Practice	30	30	0	45 3
BOFA	2204	Records Management	30	30	0	45 3
BOFA	2205	Key board Skills Development II (45-50 wpm)	45	0	45	60 4
BREM	2201	Research Methods	30	30	0	45 3

<b>Summer</b>						
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BINA	2301	Office Practicum I	0	0	3	0 3

<b>Third Year</b>						<b>43</b>
<b>Semester One</b>						<b>22</b>
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
		Elective	30	30	0	45 3
BBCT	1111	Funds of Relational Database Systems	30	30	0	45 3
BMGT	3104	Organizational Behaviour	30	30	0	45 3
BOFA	3108	Desktop Publishing	30	30	0	45 4
BOFA	3109	Secretarial Duties & Ethics	30	30	0	45 3
BREP	3102	Research Project	30	30	0	45 3
BSWA	1102	Introduction to Social Admin.	30	30	0	45 3

<b>Semester Two</b>						<b>21</b>
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BOFA	3210	Stress & Time Management	30	30	0	45 3
BHRM	3215	Advanced Human Resource Mgt.	30	30	0	45 3
BOFA	3211	Office Organization & Management	30	30	0	45 3
BOFA	3212	Personality Development	30	30	0	45 3
BJMF	1202	Business French	30	30	0	45 3
BMGT	3204	Strategic Management	30	30	0	45 3
BMKT	3207	Customer Relationship Mgt	30	30	0	45 3

<b>Summer</b>						
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BINA	3302	Office Practicum II	0	0	3	0 3

**Minor in Secretarial Studies & Office Administration (Any 21 Credit Hours)**

Code		Title	LH	TH	PH	CH	CU
BOFA	2101	Keyboard Skills 1	45	0	45	60	4
BOFA	2102	Spread Sheet	45	0	45	60	4
BOFA	2103	Principles of Pitman's Shorthand 1	45	0	45	60	4
BOFA	2204	Principles of Records Management	30	30	0	45	3
BOFA	2205	Key board Skills 11	45	0	45	60	4
BOFA	2206	Shorthand 11- Speed Development (80-100 wpm)	45	0	45	60	4
BOFA	2207	Corporate Secretarial Practice	30	30	0	45	3
BOFA	3108	Desktop Publishing	45	0	45	60	4
BOFA	3109	Secretarial Duties & Ethics	30	30	0	45	3
BPAM	2101	Public Administration	30	30	0	45	3
BOFA	3211	Office Organization & Management	30	30	0	45	3



## DIPLOMA IN HUMAN RESOURCE MANAGEMENT

### Diploma Requirement Summary

Course Category	Credits
General Education Courses	13
Major Concentration	30
Cognate Requirements	30
Research	6
Electives	3
Industrial Attachment	6
<b>Total</b>	<b>88</b>

### General Education Courses (13 Credit Hrs.)

Code	Title	LH	TH	PH	CH	CU
GECC 1101	Fundamentals of Computers and Office Applications	45	0	45	60	4
GECH 1101	Health Principles	30	30	0	45	3
GECC 1101	Christian Beliefs	30	30	0	45	3
GECL 1101	Introduction to Writing Skills	30	30	0	45	3

### Major Concentration (30 credits)

Code	Title	LH	TH	PH	CH	CU
DHRM 1201	Human Resource Mgt. Principles	30	30	0	45	3
DHRM 1202	Human Resource Info. System	30	30	0	45	3
DHRM 1203	Basic H.R. Career planning & mgt.	30	30	0	45	3
DHRM 2104	Human Resource Ethical Issues	30	30	0	45	3
DHRM 2105	Negotiation & Conflict management	30	30	0	45	3
DHRM 2106	Compensation & Benefits Mgt.	30	30	0	45	3
DHRM 2207	Industrial Relations & Labour Laws	30	30	0	45	3
DHRM 2208	H.R Training & Development	30	30	0	45	3
DHRM 2209	Organizational Dev't & Change	30	30	0	45	3
DHRM 2210	Occupational Health & Safety	30	30	0	45	3

### Cognates (30 Credits)

Code	Title	LH	TH	PH	CH	CU
DECO 1101	Elementary Economics	30	30	0	45	3
DMAT 1101	Basic Mathematics	30	30	0	45	3
DMAT 1202	Quantitative methods	30	30	0	45	3
DMGT 2201	Mgt & Organization Theory	30	30	0	45	3
DACC 1101	Elementary Financial Accounting I	30	30	0	45	3
DMGT 2104	Organizational Behavior	30	30	0	45	3
DENT 2101	Entrepreneurship Concepts	30	30	0	45	3
DACC 2207	Taxation Principles	30	30	0	45	3
DBSA 1201	General principles of Law	30	30	0	45	3
DACM 1201	Basic Managerial Communication Skills	30	30	0	45	3

### Research (6 Credits)

Code	Title	LH	TH	PH	CH	CU
DREM 2101	Introduction to Research methods	30	30	0	45	3
DREP 2202	Introduction to Research Project	30	30	0	45	3

### Industrial Attachment (6 Credits)

Code	Title	LH	TH	PH	CH	CU
DINA 2301	Industrial Attachment	0	0	270	90	6

**Electives: (Choose any 3 credits)**

Code	Title	LH	TH	PH	CH	CU
DMKT 2101	Basic Marketing	30	30	0	45	3
DMKT 2202	Customer Care	30	30	0	45	3
DBSA 2204	Business Ethics principles	30	30	0	45	3
DECO 1202	Money, Banking & Public Finance	30	30	0	45	3

**Recommended Schedule for Diploma in Human Resource Management****First Year** **43****Semester 1** **22**

Code	Title	LH	TH	PH	CH	CU
GECC 1101	Fundamentals of Computers & Office Applications	45	0	45	60	4
GECH 1101	Human Sexuality & Health Principles	30	30	0	45	3
GECR 1101	Christian Beliefs	30	30	0	45	3
GECL 1101	Introduction to Writing Skills	30	30	0	45	3
DMAT 1101	Basic Mathematics	30	30	0	45	3
DACC 1101	Elementary Financial Accounting I	30	30	0	45	3
DECO 1101	Elementary Economics	30	30	0	45	3

**Semester 2** **21**

Code	Title	LH	TH	PH	CH	CU
DBSA 1202	H.R. Information Mgt. System	30	30	0	45	3
DHRM 1203	Basic H.R. Career planning & Mgt.	30	30	0	45	3
DACM 1201	Basic Managerial Communication Skills	30	30	0	45	3
DMAT 1202	Quantitative Methods	30	30	0	45	3
DHRM 1201	Human Resource Mgt. Principles	30	30	0	45	3
DBSA 1201	General Principles of Law	30	30	0	45	3
.....	Elective	30	30	0	45	3

**Second Year:** **39****Semester 1** **18**

DENT 2101	Entrepreneurship Concepts	30	30	0	45	3
DMGT 2104	Organizational Behavior	30	30	0	45	3
DHRM 2106	Compensation & Benefits Mgt	30	30	0	45	3
DHRM 2105	Negotiation & Conflict Management	30	30	0	45	3
DHRM 2104	Human resource Ethical Issues	30	30	0	45	3
DREM 2101	Introduction to Research Methods	30	30	0	45	3

**Semester 2:** **21**

Code	Title	LH	TH	PH	CH	CU
DACC 2207	Taxation Principles	30	30	0	45	3
DMGT 2201	Management & Organization Theory	30	30	0	45	3
DHRM 2209	Organizational Dev't & Change	30	30	0	45	3
BHRM 2208	H.R. Training & Development	30	30	0	45	3
DHRM 2207	Industrial Relations & Labour Laws	30	30	0	45	3
DBRE 2202	Introduction to Research Project	30	30	0	45	3
DHRM 2210	Occupational Health & Safety	30	30	0	45	3

**Summer**

Code	Title	LH	TH	PH	CH	CU
DINA 2301	Industrial Attachment	0	0	270	90	6

## DIPLOMA IN PROCUREMENT AND SUPPLY CHAIN MANAGEMENT

### Diploma Requirement Summary

Course Category	Credits
General Education Courses	13
Major Concentration	24
Cognate Requirements	39
Research	6
Industrial Attachment	6
<b>Total</b>	<b>88</b>

### General Education Courses (13 Credit Hrs.) 13

Code	Title	LH	TH	PH	CH	CU
GECC 1101	Fundamentals of Computers and Office Applications	45	0	45	60	4
GECH 1101	Health Principles	30	30	0	45	3
GECR 1101	Christian Beliefs	30	30	0	45	3
GECL 1101	Introduction to Writing Skills	30	30	0	45	3

### Major Concentration (24 credits)

Code	Title	LH	TH	PH	CH	CU
DPSM 1201	Intro. to Purchasing Principles	30	30	0	45	3
DPSM 1202	Introduction to Supply Chain Mgt.	30	30	0	45	3
DPSM 2103	Intro. to Logistics & Supply Chain Process	30	30	0	45	3
DPSM 2104	Procurement Records Management	30	30	0	45	3
DPSM 2105	Legal Aspects of Procurement	30	30	0	45	3
DPSM 2206	Inventory Management	30	30	0	45	3
DPSM 2207	Integrity & Ethics in Procurement & Supply	30	30	0	45	3
DPSM 2208	Public Procurement	30	30	0	45	3

### Cognates (39 Credits)

Code	Title	LH	TH	PH	CH	CU
DECO 1101	Elementary Economics	30	30	0	45	3
DMAT 1101	Basic Mathematics	30	30	0	45	3
DMAT 1202	Quantitative methods	30	30	0	45	3
DACM 1201	Basic Business Communication skills	30	30	0	45	3
DACC 1101	Elementary Financial Accounting I	30	30	0	45	3
DBSA 1201	General Principles of Law	30	30	0	45	3
DENT 2101	Entrepreneurship Concepts	30	30	0	45	3
DMKT 2101	Basic Marketing	30	30	0	45	3
DHRM 1201	Human Resource Mgt. Principles	30	30	0	45	3
DMGT 2201	Management & Organization	30	30	0	45	3
DFNC 2101	Business Finance Concepts	30	30	0	45	3
DMKT 2202	Customer Care	30	30	0	45	3
DACC 2207	Taxation Principles	30	30	0	45	3

### Research (6 Credits):

Code	Title	LH	TH	PH	CH	CU
DREM 2101	Research Methods	30	30	0	45	3
DREP 2202	Introduction to Research Project	30	30	0	45	3

**Industrial Attachment (6 Credits):**

Code	Title	LH	TH	PH	CH	CU
DINA 2301	Industrial Attachment	0	0	270	90	6

**Recommended Schedule for Diploma in Procurement & Supply Chain Mgt.**

<b>First Year</b>							<b>40</b>
<b>Semester 1</b>							<b>22</b>
Code	Title	LH	TH	PH	CH	CU	
GECC 1101	Fundamentals of Computers & Office Applications	45	0	45	60	4	
GECH 1101	Human Sexuality & Health Principles	30	30	0	45	3	
GECR 1101	Christian Beliefs	30	30	0	45	3	
GECL 1101	Introduction to Writing Skills	30	30	0	45	3	
DMAT 1101	Basic Mathematics	30	30	0	45	3	
DACC 1101	Elementary Financial Accounting I	30	30	0	45	3	
DECO 1101	Elementary Economics	30	30	0	45	3	
<b>Semester 2</b>							<b>18</b>
Code	Title	LH	TH	PH	CH	CU	
DPSM 1201	Intro. to Purchasing Principles	30	30	0	45	3	
DACM 1201	Basic Business Communication Skills	30	30	0	45	3	
DMAT 1202	Quantitative Methods	30	30	0	45	3	
DHRM 1201	Human Resource Mgt. Principles	30	30	0	45	3	
DBSA 1201	General principles of Law	30	30	0	45	3	
DPSM 1202	Introduction to Supply Chain Mgt.	30	30	0	45	3	
<b>Second Year:</b>							<b>42</b>
<b>Semester 1</b>							<b>21</b>
Code	Title	LH	TH	PH	CH	CU	
DENT 2101	Entrepreneurship Concepts	30	30	0	45	3	
DPSM 2105	Legal Aspect of Procurement	30	30	0	45	3	
DMK 2101	Basic Marketing	30	30	0	45	3	
DPSM 2103	Intro. to Logistics & Supply Chain Process	30	30	0	45	3	
DPSM 2104	Procurement Records Management	30	30	0	45	3	
DFNC 2101	Business Finance concept	30	30	0	45	3	
DREM 2101	Research Methods	30	30	0	45	3	
<b>Semester 2:</b>							<b>21</b>
Code	Title	LH	TH	PH	CH	CU	
DACC 2207	Taxation Principles	30	30	0	45	3	
DMGT 2201	Management & Organization	30	30	0	45	3	
DPSM 2208	Public Procurement	30	30	0	45	3	
DPSM 2206	Inventory Management	30	30	0	45	3	
DMKT 2202	Customer care	30	30	0	45	3	
DREP 2202	Introduction to Research Project	30	30	0	45	3	
DPSM 2207	Integrity & Ethics in Procurement & Supply	30	30	0	45	3	
<b>Summer</b>							
Code	Title	LH	TH	PH	CH	CU	
DINA 2301	Industrial Attachment	0	0	270	90	6	

## DIPLOMA IN MANAGEMENT

### Diploma Requirement Summary

<b>Course Category</b>	<b>Credits</b>
General Education Courses	13
Major Concentration	36
Cognate Requirements	27
Research	6
Industrial Attachment	6
<b>Total</b>	<b>88</b>

### General Education Courses (13 Credit Hrs.)

Code	Title	LH	TH	PH	CH	CU
GECC 1101	Fundamentals of Computers and Office Applications	45	0	45	60	4
GECH 1101	Health Principles	30	30	0	45	3
GECR 1101	Christian Beliefs	30	30	0	45	3
GECL 1101	Introduction to Writing Skills	30	30	0	45	3

### Major Concentration (36 credits)

Code	Title	LH	TH	PH	CH	CU
DPPM 2101	Project Planning & Management	30	30	0	45	3
DMGT 2201	Management & Organization Theory	30	30	0	45	3
DMGT 2202	Strategic Management	30	30	0	45	3
DPSM 2104	Purchasing & Supplies management	30	30	0	45	3
DHRM 1201	Human Resource Mgt. principles	30	30	0	45	3
DACC 1101	Elementary Financial Accounting I	30	30	0	45	3
DMKT 2101	Basic marketing	30	30	0	45	3
DACC 2105	Elementary Cost Accounting	30	30	0	45	3
DMGT 2104	Organizational Behaviour	30	30	0	45	3
DMKT 2202	Customer Care	30	30	0	45	3
DECO 1101	Elementary Economics	30	30	0	45	3
DFNC 2101	Business Finance Concept	30	30	0	45	3

### Cognates (27 Credits)

Code	Title	LH	TH	PH	CH	CU
DECO 1202	Money, Banking & Public Finance	30	30	0	45	3
DACC 2207	Taxation Principles	30	30	0	45	3
DMAT 1101	Basic Mathematics	30	30	0	45	3
DMAT 1202	Quantitative Methods	30	30	0	45	3
DBSA 2203	General Principles of Law	30	30	0	45	3
DBSA 2204	Business Ethics principles	30	30	0	45	3
DENT 2101	Entrepreneurship Concepts	30	30	0	45	3
DACM 1201	Basic Business Communication Skills	30	30	0	45	3
DOFA 1201	Records Management	30	30	0	45	3

### Research (6 Credits)

Code	Title	LH	TH	PH	CH	CU
DREM 2101	Introduction to Research Methods	30	30	0	45	3
DREP 2202	Introduction to Research Project	30	30	0	45	3

**Industrial Attachment (6 Credits):**

Code	Title	LH	TH	PH	CH	CU
DINA 2301	Industrial Attachment	0	0	270	90	6

**Recommended Schedule for Diploma in Management**

<b>First Year</b>						<b>43</b>
<b>Semester 1</b>						<b>22</b>
Code	Title	LH	TH	PH	CH	CU
GECC 1101	Fundamentals of Computers and Office Applications	45	0	45	60	4
GECH 1101	Health Principles	30	30	0	45	3
GECR 1101	Christian Beliefs	30	30	0	45	3
GECL 1101	Introduction to Writing Skills	30	30	0	45	3
DMAT 1101	Basic Mathematics	30	30	0	45	3
DACC 1101	Elementary Financial Accounting I	30	30	0	45	3
DECO 1101	Elementary economics	30	30	0	45	3
<b>Semester 2</b>						<b>21</b>
Code	Title	LH	TH	PH	CH	CU
DHRM 1201	Human Resource Mgmnt Principles	30	30	0	45	3
DACM 1201	Basic Business Communication Skills	30	30	0	45	3
DMAT 1202	Quantitative Methods	30	30	0	45	3
DBSA 1202	Purchasing &Supplies management	30	30	0	45	3
DECO 1202	Money, Banking & Public Finance	30	30	0	45	3
DOFA 1201	Records Management	30	30	0	45	3
DACC 2207	Taxation Principles	30	30	0	45	3
<b>Second Year:</b>						<b>39</b>
<b>Semester 1</b>						<b>21</b>
Code	Title	LH	TH	PH	CH	CU
DENT 2101	Entrepreneurship Concepts	30	30	0	45	3
DPPM 2101	Project Planning & Management	30	30	0	45	3
DMKT 2101	Basic Marketing	30	30	0	45	3
DMGT 2104	Organizational Behavior	30	30	0	45	3
DFNC 2101	Business Finance Concept	30	30	0	45	3
DACC 2105	Elementary Cost Accounting	30	30	0	45	3
DREM 2101	Introduction to Research Methods	30	30	0	45	3
<b>Semester 2:</b>						<b>18</b>
Code	Title	LH	TH	PH	CH	CU
DMKT 2202	Customer Care	30	30	0	45	3
DMGT 2201	Management & Organization	30	30	0	45	3
DBSA 2204	Business Ethics Principles	30	30	0	45	3
DMGT 2202	Strategic Management	30	30	0	45	3
DREP 2202	Research Project	30	30	0	45	3
DBSA 2203	General Principles of Law	30	30	0	45	3
<b>Summer</b>						
Code	Title	LH	TH	PH	CH	CU
DINA 2301	Industrial Attachment	0	0	270	90	6

## DIPLOMA IN OFFICE ADMINISTRATION AND SECRETARIAL STUDIES

### Diploma Requirement Summary

Course Category	Credits
General Course Requirements	13
Major Concentration	33
Cognate Requirements	33
Research	6
Industrial Attachment	6
<b>Total</b>	<b>91</b>

### General Courses (13 Credit Hrs) 13

Code	Title	LH	TH	PH	CH	CU
GECH 1101	Health Principles.	30	30	0	45	3
GECR 1101	Christian Beliefs	30	30	0	45	3
GECC 1011	Fund. Of Computers & Office Appl.	45	0	45	60	4
GECG 1101	Introduction to Writing Skills	30	30	0	45	3

### Major Concentration 33

Code	Title	LH	TH	PH	CH	CU
DACC 1101	Elementary Financial Accounting I	30	30	0	45	3
DOFA 1201	Records Management	30	30	0	45	3
DOFA 1202	Customer Care	30	30	0	45	3
DOFA 2103	Key Boarding 1	30	30	0	45	3
DOFA 2104	Shorthand I	30	30	0	45	3
DOFA 2205	Key Boarding II	30	30	0	45	3
DOFA 2206	Shorthand II	30	30	0	45	3
DOFA 2207	Office Organisation & Management	30	30	0	45	3
DBSA 1201	Data Processing Skills	30	30	0	45	3
DOFA 2208	Corporate Secretarial Practice	30	30	0	45	3
DSPC 1101	Introduction to Psychology	30	30	0	45	3

### Cognate Requirements 33

Code	Title	LH	TH	PH	CH	CU
DBSA 1201	General Principles of Law	30	30	0	45	3
DECO 1101	Elementary Economics	30	30	0	45	3
DMAT 1101	Basic Mathematics	30	30	0	45	3
DMAT 1202	Quantitative Methods	30	30	0	45	3
DMGT 2201	Management Organization & Theory	30	30	0	45	3
DENT 2101	Entrepreneurship Concepts	30	30	0	45	3
DMKT 1101	Basic Marketing	30	30	0	45	3
DMGT 2202	Human Resource Mgt Principles	30	30	0	45	3
DMGT 2104	Organizational Behavior	30	30	0	45	3
DACC 2207	Taxation Principles	30	30	0	45	3
DBSA 2203	Business Ethics Principles	30	30	30	0	3

### Research (6 Credits) 6

Code	Title	LH	TH	PH	CH	CU
DREM 2101	Research Methods	30	10	30	45	3
DREP 2202	Introduction to Research Project	30	10	30	45	3

**Industrial Attachment (6 Credits)**

Code	Title	LH	TH	PH	CH	CU
DINA 2301	Industrial Attachment	0	0	270	90	6

**Recommended Schedule for Diploma in Office Administration and Secretarial Studies.**

<b>First Year</b>						<b>43</b>
<b>Semester 1</b>						<b>22</b>
Code	Title	LH	TH	PH	CH	CU

GECC 1101	Fundamentals of Computers and Office Applications	45	0	45	60	4
GECH 1101	Human Sexuality & Health Principles	30	30	0	45	3
GECL 1101	Christian Beliefs	30	30	0	45	3
GECG 1101	Introduction to Writing Skills	30	30	0	45	3
DMAT 1101	Basic Mathematics	30	30	0	45	3
DACC 1101	Elementary Financial Accounting I	30	30	0	45	3
DECO 1101	Elementary Economics	30	30	0	45	3

<b>Semester 2</b>						<b>21</b>
Code	Title	LH	TH	PH	CH	CU

DOFA 1201	Records Management	30	30	0	45	3
DBSA 1201	Data Processing Skills	30	30	0	45	3
DBSA 2203	Business Ethics Principles	30	30	0	45	3
DMAT 1202	Quantitative Methods	30	30	0	45	3
DHRM 2201	Human Resource Mgt. Principles	30	30	0	45	3
DBSA 1201	General Principles of Law	30	30	0	45	3
DOFA 1202	Customer Care	30	30	0	45	3

<b>Second Year:</b>						<b>42</b>
<b>Semester 1</b>						<b>21</b>
Code	Title	LH	TH	PH	CH	CU

DENT 2101	Entrepreneurship Concepts	30	30	0	45	3
DMGT 2104	Organizational Behavior	30	30	0	45	3
DOFA 2103	Key Boarding I	30	30	0	45	3
DOFA 2104	Short hand I	30	30	0	45	3
DSPC 1101	Introduction to Psychology	30	30	0	45	3
DMKT 1101	Basic Marketing	30	30	0	45	3
DREM 2101	Research Methods	30	30	0	45	3

<b>Semester 2:</b>						<b>21</b>
Code	Title	LH	TH	PH	CH	CU

DACC 2207	Taxation Principles	30	30	0	45	3
DMGT 2201	Management & Organization	30	30	0	45	3
DOFA 2205	Key Boarding II	30	30	0	45	3
DOFA 2206	Shorthand II	30	30	0	45	3
DOFA 2207	Office Organization & Management	30	30	0	45	3
DREP 2202	Introduction to Research Project	30	30	0	45	3
DOFA 2208	Corporate secretarial Practice	30	30	0	45	3

<b>Summer</b>						
Code	Title	LH	TH	PH	CH	CU

DINA 2301	Industrial Attachment	0	0	270	90	6
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## PROCUREMENT & SUPPLY CHAIN MANAGEMENT

### **BPSM 2101 Introduction to Procurement & Supply Chain Management**

Purchasing procurement have become of strategic importance to firms, in helping them achieve their goals and objectives. This is only possible if the purchasing and disposal procedures are followed. This course will introduce students to the basic concepts in procurement and processes involved in both public and private sectors thus exposing them to the aspects that will enable appreciate the importance of procurement management in today's competitive environment. This course is designed to enable students apply the fundamental principles of procurement and supply chain in a variety of contexts.

### **BPSM 2102 Logistics & Supply Chain Processes**

This course covers logistics, supply chain aspects and processes. It is intended to provide students with theories, practices and activities in logistics and the supply chain management in general. This course demonstrates the importance of logistics, supply chain to organizational performance in current business dynamics. In summary the course gives an introduction to logistics, a link of the various supply chain activities and their role in the modern business environment, market Flexibility, costs management and lead time management.

### **BPSM 3106 Public Procurement**

This course Introduces students to fundamental principles and practices of public sector procurement. The fact is that the public sector remains in all countries very important and this is especially because of increasing budget expenditures, deficits and soaring national debt. This calls for proper analysis of government procurement expenditure, therefore the course will look at Public Procurement practices, Public Procurement development and its contribution to Organizations as well as the Economy.

### **BPSM 2203 Procurement Records Management**

This course broadly offers skills and competencies in effective records management of the procurement transaction. It looks at the importance of records management, classification of procurement records, electronic procurement records skills for records management.

### **BPSM 3109 E & International Procurement**

With the ever-increasing pressure of competition among companies, the move towards consolidation of global production and the improvements in communication and transportation systems, it emphasizes sourcing of supply from around the world.

To that end the sourcing of materials or the engagement of service providers is taking on an international perspective, this alters dramatically the role of procurement, to a more strategic and global posture. Three forces guide the development of the supply chain: the supply chain concept, the trends within global business and a strategic shift being taken by an increasing number of enterprises toward core competencies.

Today's global logistics and supply chain management systems would inevitably be enabled by Internet technology. The rapid development of Internet and information technology has posed new challenges and opportunities in conducting procurement and CRM over the Internet, that is, E-procurement and e-CRM This course examines the strategic nature, business models, operating procedures, technological trends, and implementation issues of e-procurement and e-CRM in today's business environment.

### **BPSM 2205 Procurement Ethics And Governance**

The encounter of moral dilemmas and contradictory moral behavior in procurement and supply process has provoked an inquiry into the nature and nurture of morality, with a view of finding ways to eliminate the moral dilemmas and contradictions. This course is designed to assist procurement and supply process students to answer some fundamental questions about life and what makes it worth living: what makes actions right? What makes us happy? What kind of qualities should a person should or should not have? How should we treat other people? What work ethic do we want to follow?

### **BPSM 3107 Procurement and Supply Chain Risks**

The course is designed to enable students undertake risk analysis and a variety of risk assessment relating to different areas of procurement and to implement a range of appropriate risk management tools and techniques. This course describes the various risks in the entire supply chain management and how they should be managed.

### **BPSM 3108 Procurement Audit and Investigations**

This is intended to expose students to the cores of procurement auditing and investigations into the accounting data in preparing them to take on the procurement profession. It covers the meaning objectives of procurement auditing, planning and conducting of audit investigations through the writing of audit reports.

### **BPSM 3110 Procurement Legal Framework**

To provide students with information on the principle areas of the law relevant to procurement and supply with particular emphasis on Contract and Sale of Goods legislation. The procurement and supply professional needs to understand where legal issues may impact upon the organization and the liabilities and rights, which flow from their actions and the actions of third parties with which they deal. They need to appreciate the need for risk avoidance or limitation in terms of legal liability and they need to know when to refer an issue to legal professionals.

### **BPSM 3216 Transport Policy and Planning**

This course examines the transport system in the procurement and supply chain processes. It covers topics among others, such as costing and pricing of transport services, cost – benefit analysis, regulation of transport services, etc.

### **BPSM 3111 Contract and Dispute Management**

The course aims at addressing the principles in contracting and management of disputes that arise during the procurement process.

### **BPSM 3212 Strategic Procurement Management**

This course describes the nature and scope of procurement and supply chain management in the long, medium and short terms.

### **BPSM 3213 Sustainable Supply Chain Management**

The Sustainable Procurement Course enables those in both the public and private sectors to develop a greater understanding of the principals and processes of sustainable procurement and in particular how to integrate environmental considerations into the procurement process, providing practical advice on achieve this and the sustainability of products and services.

### **BPSM 3214 Performance Management In Procurement & Purchasing**

This course provides students with the knowledge and skills necessary for managing procurements in an economically, socially and environmentally sound manner. The course unit is specifically designed to prepare students for sustainable public procurement careers- including development of a sustainable procurement program application of SPP at various stages of a procurement cycle and successful implementation of SPP.

### **BPSM 3215 Inventory & Warehouse Management**

The importance of stores and warehouse management, along with materials handling and the importance of inventory control as a method of improving efficiency to drive down costs association with holding stock. This course is designed to enable students to gain a board understanding of the key requirement of controlling the supply of goods.

## **BBA MANAGEMENT**

### **BMGT 1201 Management and Organization**

This course is an introduction to effective management concepts in organizational settings from an individual and macro-systems perspective. Primary emphasis includes the organizational processes necessary for organizational effectiveness (planning, organizing, leading, and controlling), the nature of individual and group behavior, and the role of management in facilitating a mutually satisfying fit between employee needs and organizational requirements.

### **BMGT 3102 Organizational Behaviour**

This course helps students to study individuals and their behavior within the context of the organization in a workplace setting. It is an interdisciplinary field that includes sociology, psychology, communication and management.

### **BPOM 3105 Production Operations Management**

In this course, students will be given an analysis of problems and issues faced by production operations managers in manufacturing and service industries. Strategic issues and the relationships between production/operations management, marketing, and financial management are explored. Concepts and techniques covered include operation scheduling, capacity planning, facility location, production and inventory controls, forecasting, linear programming and CPM/PERT Project-Planning and Control Techniques.

### **BMGT 3103 International Business Management**

This course is designed for students to be aware of the rapid changes in the world economy which has an impact on the operations of the organizations. It also enables them to be able to handle worldwide operations.

### **BMGT 3204 Strategic Management**

Prerequisite: BBA Cognate requirements completed or concurrently enrolled in the remainder. The course introduces the key concepts, tools, and principles of strategy formulation and competitive analysis. It is concerned with managerial decisions and actions that affect the performance and survival of business enterprises. The course is focused on the information, analyses, organizational processes, skills, business managers must use to devise strategies, position their businesses, define firm boundaries and maximize long term profits in the face of uncertainty and competition.

### **BBSA 1201 Data Processing Skills**

This course prepares students to master the alphanumeric keyboard, typing of basic documents such as tables, straight copies, and basic correspondence. The skill of 25 words per minute with 5% error allowance in 10 minutes is required.

### **BBSA 2102 Mercantile Law**

This is a course is intended to familiarize students with the basic laws that cover contracts, sales partnerships, negotiable instruments, bailment, sureties, and bankruptcies. Students are also exposed to the law of torts.

### **BBSA 2203 Company Law**

This is a course in company law intended to familiarize the students with the basic laws that cover the nature and classification of companies, promotion and formation of companies, memorandum and articles of association, membership, shares, dividends, share capital, winding and amalgamation.

### **BMAT 1101 Business Algebra and Calculus**

This course includes topics in algebra such as equations, inequalities, graphs, functions and others, as well as topics in calculus, including limits, differentiation and integration. The course is arranged so that prior knowledge of the subject is unnecessary, but may be advantageous. This course is intended to prepare the student for the mathematical background needed for courses in Business Administration and does not apply to majors in Mathematics Education.

### **BACM 1201 Business Communication**

This course is designed to develop basic proficiency in the four (4) types of skills in Business English/Communication I which are reading skill, writing skill, listening skill and speaking skill. These types of Business English/Communication I will be analyzed and practical application, written, understanding the impact of cultural differences in international business. It will include guidelines for planning and concluding information and formal business meetings, conferences and conventional, preparation of minutes, resolutions, correspondences, and expense reports etc...

### **BREM 2201 Research Methods**

This is mainly a field research course comprised of gathering primary data, analyzing, presenting and defending the research based facts discovered. Students are guided to study, discuss and analyze the systematic and objective process of information generation to aid in business decision. It is intended to equip student with the basic understanding and experience of business research scope as an applied approach course. Students will gain experience on the methods for collecting data, managing, structuring and computing the collected data, analyzing the results and communicating the findings techniques.

### **BREP 3102 Research Project**

#### **Prerequisite: BREM 2201**

This is a field course which comprises of gathering primary data, analyzing and presenting the facts discovered from research based on the approved researcher's proposal submitted during BURE 2201 course. In this, the student or researcher is expected: to give a detailed account of the study in question, raise opinions on the facts and give his / her recommendations or solutions to the established and/or existing problem; to structure the findings in a clear, logical and easily understood manner; to submit his / her facts in form of either quantitative or qualitative data analysis or a combination of both; make

use of a broad variety of different tables and figures (including graphs and diagrams) to visualize the qualitative and quantified information following the School of Business research guidelines that will be provided; to present and defend a research report to the selected panelists for approval and award of grade within a period less than six months from the time the student registers for this course.

### **BINA 3301 Industrial Attachment**

This is an industrial type of training to students in a business practical environment which expose students with practical responsibilities as a business personnel or executive administrator, solving business problems while exhibiting skills and practice previously acquired. A minimum of 270 hours of 12 continuous weeks of Industrial Attachment / Practicum (6 CU) in a well and relevant established company / business environment is required. Students are expected to exhibit desirable attitude, good work habits, initiative, proper decorum developed through the course.

### **BMGT 3205 Industrial Welfare & Relations**

This course aims to equip students with a perspective of industrial relations and collective bargaining. It will cover IR systems, the external environment affecting IR, management and trade union activity at the strategic, functional and workplace levels, collective bargaining, industrial democracy, etc. The effective management of complex employment relationships is a critical function in contemporary organisations. The course introduces industrial relations delineating its essential concepts. In so doing, it considers the historical dimensions of work and the employment relationship, and the origins and the development of industrial relations up to the present time. Particular detailed attention is given to the present day structures and characteristics of employee representation, management and employers' associations. This is complemented by an examination of the role of the state, and how recent systemic changes affect state regulation and the workplace.

### **GECS 1202 Statistics**

The course presents general statistical principles, which are useful in many fields of specialization. Statistics is concerned with scientific methods for collection, organizing, summarizing, presenting and analyzing data as well as drawing valid conclusions and making decisions on the basis of analysis. Topics include frequency distribution, probability distribution and sampling theory, among others. This course is intended to prepare the student for the statistical background needed for many majors and does not apply to majors in Mathematics Education.

## **BBA MARKETING**

### **BMKT 2101 Marketing Management 1**

This course examines the marketing concept as a societal process by which individuals obtain what they need and want through creating, offering, and freely exchanging products and services of value with others. It is the art and science study of choosing target markets and getting, keeping, and growing customers through creating, delivering, and communicating superior customer value. The course includes the introduction of tools and methods used to examine marketing environments, understand consumer and organizational buying behavior, segment markets and position products, develop new products, manage existing products and promote, price and place products. A general survey of the major marketing methods, techniques, the institutions and practices, examined from the viewpoint of their effect on the exchange of processes involved in moving goods from producers to ultimate consumers, creation, analysis and maintenance of market.

### **BMKT 2202 Marketing Management 11**

#### **Prerequisite: BMKT 2101**

The course investigates the strategic issues and decisions facing marketing managers. Emphasis is on the analytical process by which market opportunities and environmental events translate into marketing plans, including environmental scanning, segmentation, warfare, and implementation, evaluation and control. The course addresses management questions in the context of strategic marketing management which includes strategic and marketing analysis, strategic direction, and strategic formulation to meet the objectives, strategic choice or means, strategic evaluation, implementation and control.

### **BMKT 3207 Customer Relationship Management**

The course focuses on creating a mutual relationship between both internal and external customers. It also focuses on sales strategy and the sales management functions. It is also designed to familiarize students with business-to-business selling strategy, including sales relationships, including new organizational forms and organizational learning issues. A study of the consumer buying behavior and the exchange process involved in acquiring, consuming and disposing of goods, services, experiences and ideas upon receiving the message/communication is looked at. It is a study which enables marketing students to understand and predict consumer behavior in the market place. It promotes an understanding of the consumption role in the lives of individuals.

### **BMKT 3211 Public Relations Management**

This course provides students with a detailed introduction to public relations, including its historical origins, and its distinctions from advertising. Students will study theories of the public and the public relations theory while learning the many roles of the public relations practitioner and of the public relations agency.

### **BMKT 3106 Sales and Brand Management**

This course exposes the students to the main concepts of Sales and Brand Management. It explores the introduction to Sales Force Management, Organizing, staffing and Training a sales force, and directing Sales Force Operations. The course further gives details of Brand Management, Brand Equity, and Brand Valuation, Brand identity and Positioning, Brand Extension and Building Brand and Corporate Reputation.

### **BMKT 2103 Marketing Communication Strategy**

This course is intended at introducing students to various aspects of marketing communication. It looks at an introduction to marketing communications, understanding how marketing communication works, managing marketing communications, tools of marketing communication, the media, marketing communication for special audiences, etc.

### **BMKT 2104 Business to Business Marketing**

#### **Prerequisite: BMKT 112**

This course covers industrial and organizational buyer behavior. The study of strategic marketing management practices of firms selling to business organization, government agencies and institutions are integral to the course

### **BMKT 2205 Service Marketing**

This course provides knowledge about the rising importance of service marketing. Due to the growth of the service sector worldwide, it is evident that the economies of countries today are in the post service stage where the competition of service is high. Information technology, travel, tourism, health care, advisory and consultancy, finance and banking,

business process out-sourcing, and retail marketing are some of the services that have witnessed strong growth across the globe in recent times; it is with this view that service marketing in local context will be studied.

### **BMKT 3208 Retail & Wholesale Marketing Management**

The course helps students to have knowledge and understanding of retail and wholesale marketing. It helps students to consider different ways of approaching the retail market place, to learn a set of retail marketing Principles, and to feel more confident about practical uses of retail marketing.

### **BMKT 3209 Consumer Behavior**

This is a study of the buying units and the exchange process involved in acquiring, consuming and disposing of goods, services, experiences and ideas upon receiving the message/communication by giving or exchanging of information, by way of identifying, analyzing and ultimately understanding the target market and its buying behavior which can help to communicate and influence the buyer at various stages before, during and after purchasing.

### **BMKT 3210 International Marketing Strategy**

In this course marketing problems arising from various degrees of foreign involvement are considered. It includes marketing research, project planning and development, pricing promotion, distribution, and organization. Emphasis is on the management of these marketing functions in a multinational context where the parameters differ from those in the domestic setting. It also covers international trade concepts and theory; International market-ing environment-cultural, economic, political, legal, social and technological environments; International marketing management, marketing intelligence, product price, promotion and distribution policies; Regional economic group-ing; Import and export procedures.

## **BACHELOR OF ARTS IN ECONOMICS**

### **BECO 1101 Micro Economics 1**

This course is designed to develop objective consideration of economic issues and provide information and understanding of how resources are allocated by the pricing mechanism and the determination of output in the various market structures. It analyses also the basic concepts which describe how individuals choose what to consume and how entrepreneurs choose what to produce. Topics for study include theory of consumer choice, theory of price determination, theory of resource allocation, theory of income distribution, effects of market structures such as perfect competition, monopolistic competition, monopoly and oligopoly and the effect of government regulation.

### **BECO 1202 Macroeconomics 1**

Macroeconomics studies the economy in aggregate. It is concerned with larger economic agents, governments, taxes, national income, inflation, monetary and fiscal policy. It includes issues relating to economic growth and living standards, inflation and unemployment, business cycles and international economic relationships and economy-wide government policies.

### **BECO 2103 Micro Economics 11**

#### **Prerequisite: BECO 1101 and BMAT 1202**

This course is a detailed analysis of microeconomic principles. It entails a theoretical analysis of consumer behavior, individual prices, and the allocation of specific resources



to particular uses in a market setting; an analysis of the distribution of income, and the theories of demand and supply (consumer theory and theory of production). It also includes the study of the general equilibrium analysis and welfare economics.

#### **BECO 2104 Managerial Economics**

**Prerequisite:** BECO 1101 and BECO 1202

In this course, students are trained in how to primarily use both micro and macro-economic theories in making valid decisions in management.

#### **BECO 2105 Monetary Economics**

**Prerequisite:** BECO 1202

Monetary Economics concerns the relationship between real and nominal variables. It provides an introduction to monetary theory, to financial economic variables and financial markets, the effects of monetary variables on the macroeconomic system, the role of the Central Bank, the conduct of monetary policy in closed and open economies and an introduction to the alternative monetary policy regimes plus monetary policy rules.

#### **BECO 2206 Economic Thought**

This course entails the study of economic thinking from the late medieval times to the present. It is a survey course beginning with the mercantilists; it extends through Adam Smith to twentieth century thinkers such as Robinson and Milton Friedman.

#### **BECO 2207 Development Economics**

**Prerequisites:** BECO 1101 and BECO 1202

This is a study of the problem of poverty in the world. The development process is examined with a focus on the theories of economic growth and development. Other topics include the role of agriculture, savings and investment in development, including foreign aid and trade and development strategy and planning.

#### **BECO 2208 Macroeconomics 11**

**Prerequisite:** BECO 1202 and GECS 1202

This course is a detailed analysis of macroeconomic principles. It provides an overview of the modern market economy as a system for dealing with the problem of scarcity. It gives an analysis of the relationship among such variables as national income, employment, inflation and the quantity of money, the role of the government expenditure taxation and monetary policy.

#### **BECO 2209 International Economics**

**Prerequisite:** BECO 1101 and BECO 1202

Included in this course are the theories of comparative advantage and analysis of factor substitution by use of Ricardian and Heckscher Ohlin models. It is a description and analysis of international trade, balance of payment accounts and the mechanism of international economic adjustment. Hence, instruments and uses of trade policy, foreign exchange rates and interest rates are examined.

#### **BECO 3110 Economic Planning and Policy**

**Prerequisites:** BECO 2103 and BECO 2208

This course is designed to acquaint the student with the various types of planning. It explores the planning techniques and strategies in the various economic systems. It also includes pricing, cost benefit analysis and project evaluation.



### **BECO 3111 Microeconomics 111**

#### **Prerequisite: BECO 2103**

This course is designed to give students a consistent way of approaching the full range of contemporary macroeconomics issues. At this stage a student with a lot of help is expected to internalize how formal models can be used to explain the real world economy. It includes application of the theories to real events and issues in analyzing important episodes like the impact of tax reform, the causes and effects of LDC debt crisis, the long run viability of manufacturing in the face of foreign competition, etc.

### **BECO 3222 Transport Economics**

This course examines the economic problems of transport operations and planning at firm, local and national government levels. It looks at transport providers, demand and supply of transport, transport policies, interventions and regulation as well as transport planning models.

### **BECO 3113 Public Finance and Fiscal Policy**

#### **Prerequisite: BECO 1101 and BECO 1202**

It covers the economic role of governments in the market economics. Public goods, externalities, income distribution, and income maintenance programs are also explored. Students also learn the effect of taxes on economic behavior, descriptions of the structure of the principle of Uganda taxes and current reform proposals.

### **BECO 3214 Macro Economics 111**

This course is designed to give a students' a consistent way of approaching the full range of contemporary macroeconomic issues. The student is expected to internalize how formal models can be used to explain the real world economy. It includes application of theories to real events and issues in analyzing important episodes like the impact of tax reform, the causes and effects of government interventions on the economy, balance of payment equilibrium in different foreign exchange frame works, and the effect of wages on labor supply, labor demand and full employment.

### **BECO 3215 Econometrics**

#### **Pre requisite: BECO 2103 and BECO 2208**

The course entails models and methods used to estimate relationships and test hypotheses pertaining to economic variables. This course applies many of the concepts and techniques learned in quantitative methods to regression analysis. Students are expected to be comfortable with basic algebra and matrices used to illustrate many for the important theoretical concepts. The course teaches student to understand as well as conduct basic empirical research in economics.

### **BECO 3216 Agricultural Economics**

An introduction to the principles of economics including production principles; production costs, supply and revenue; profit maximization; consumption and demand; price elasticity; market price determination; and competitive versus noncompetitive market models. These principles are applied to agriculture and the role of agriculture in the economy. Other topics include a survey of the world food situation; natural, human and capital resources; commodity product marketing; and agricultural problems and policies.

### **BECO 3217 Labour Economics**

The course gives an overview of the important topics in the field of Labour Economics, with emphasis on the theory and empirical evidence regarding developments in the

Labour Market. It builds on micro and macro-economic foundations to introduce recent ideas and experiences in labour markets in light of technological and structural changes, to illustrate the relevancy of both the current and future behaviour of labour markets, and the impacts of changing policies on labour in both MDCs and LDCs.

#### **BECO 3218 Public Sector Economics**

This course utilizes economic principles to study the public sector and its impact on resource allocation and income distribution. The emphasis is put on market failure and the role of the government in correcting these market failures and Government revenue sources and expenditures.

#### **BECO 3219 Resource and Environmental Economics**

This course explores the economics of natural resources. Theoretical problems and their application with natural resources will be discussed. The course examines under what circumstances the rate of natural resource exploitation in a market economy will resemble the socially optimal rate and how resource use is affected by economic and institutional factors. The economics of sustainable development will be analyzed too.

### **SECRETARIAL STUDIES & OFFICE ADMINISTRATION**

#### **BOFA 2101 Keyboard Skills 1**

This is a practical course that involves introduction to the keyboard as an input device, and the appropriate techniques for using it, as a pre-requisite course unit document production. It studies such issues as the overview of the keyboard machine, parts of a manual typewriter, the different keys, introduction to blind touch techniques, alphabetical review, spacing, paper size and layout, paragraphing, headings, single page documents, and simple tabulation.

#### **BOFA 2103 Principles of Pitman's Shorthand 1**

It introduces learners to the concept of the art of representing spoken sounds by written signs. In this course students are introduced to the Principles and theory of Pitman Shorthand, how to read and write shorthand fluently, linguistic skills, etc.. The intended speed building is 60/70 words per minute with a minimum of 10 errors in 10 minutes. Topics include: Halving hooked strokes (S/D), Circles and Loops, Diaphones, final vowel indications, initial vowel indications, halving, doubling (curved strokes) doubling (straight strokes) doubling for mp/mb+r, Con, Com, Cog, Figures, units and punctuation marks.

#### **BOFA 2204 Principles of Records Management**

This course introduces the principles and practices associated with managing records of all formats in private and public sector organisations. It addresses the benefits of sound records management and outlines the principles and practices that are required to ensure evidence of day to day business is correctly documented. It covers the key strategies tools and processes that ensure records (and the information within them) are accessible, compliant, well managed, and less open to risk. It explains what records and documents are, and how they should be classified, organised, accessed, used and disposed of.

#### **BOFA 2205 Keyboard Skills 11**

This course covers both intermediate and advanced tasks. It enables students acquire complete mastery of the keyboard for speed and accuracy. Topics to be covered: Working with files: creating, saving, and managing files, editing and formatting; printing, creating different kinds of reports and other business correspondence, business forms, statistical technical reports, employment communication; cutting and pasting texts within and

between document; mail merge, headers and footers, foot notes and end notes in reports, find and replace advance–ment levels tables and charts applications, creating brochures, proofreading and editing document will be given much emphasis.

### **BOFA 2207 Corporate Secretarial Practice**

This module examines the role of the Corporate Secretary in promoting and reinforcing good governance across the organization by ensuring compliance with statutory obligations and good practice. In particular, this module explains the role of the Corporate Secretary in devising and overseeing appropriate compliance systems and processes to ensure that the company and its directors are compliant with corporate within the country of operation. Corporate Secretaries need to understand the application of statutory requirements and other best practice and how this underpins good governance and compliance, irrespective of sector.

### **BOFA 2206 Shorthand II – Speed Development / Principles of Pitman Shorthand 11 (80 -100 WPM)**

More advanced work of shorthand. Development of shorthand skills, use of taped passages for speed development, speed building 80/100 wpm with a minimum error of 5 in 10 min. Topics include: and intensive consolidation of the theories and principles introduced in shorthand I, a steady development of speed writing, intensive reading and writing practice, transcription (70/80 w.p.m)

### **BOFA 2102 Spread Sheet**

This course introduces learners to the information systems and information literacy concepts. It deals with planning, developing, and validating basic work sheets such as editing cells, employing formulas, performing functions, applying absolute and relative cell references using a spreadsheet.

### **BOFA 3211 Office Organization and Management**

The course intends to impart modern office organization and management skills to the learners. This course is designed to prepare students for immediate employment in any office. It aims at the mastery of office procedures, and responsibilities of an executive secretary/office administrator, solving office problems, a view and practice of skill previously learned. Desirable attitude, good work habits, initiative, proper decorum are developed through the course.

### **BOFA 3108 Desktop Publishing**

The course offers students the opportunity to use a variety of computer-based productivity tools to generate digital information through the production of: flyers, newsletters, brochures, greeting cards, magazine covers, CD covers, menus, business cards, logos, ads, etc. Students will be able to analyze the impact of desktop publishing on society by understanding concepts related to persuasiveness, marketing, and point of view.

### **BOFA 3212 Personality & Professional Development**

This course is especially helpful for those who are striving to learn more about who they are, which direction their life should take, to learn more about others around them, and to learn more about personalities and how it may impact who they hire. It also covers the aspect of personal development which is designed to help one to discover and achieve his goals through a focus on organizing and encouraging action to make a better world. You will learn techniques that will increase your abilities in key areas; including setting and achieving goals, communication skills, self-motivation and positive mental attitude. This course will help you to develop your skills so that, every day, you will be able to get the best performance from yourself and others.

### **BOFA 3109 Secretarial Duties & Ethics**

The course is intended to equip learners with secretarial duties, skills and techniques for handling office activities. It includes topics like: Definition of secretarial duties. Definition of work ethics, Purpose and value of work Personality of a secretary, Personal qualities, personal presentation and behaviour, The Secretary's relationship with her/his employer and other employees, clients, etc.

### **BOFA 3210 Stress & Time Management**

This course will give the emphasis on stress and time management exploring the concept of time from the inside out. It will also deal with stress; stress reducers; stress causers; stress effects, and many others. It will also cover definition of success; Goal identification; self-management; time wasters; reducing uncertainty; stress survival; organizing and prioritizing current activities; this will also tailor a time management strategy to meet related life areas.

### **BOFA 3214 Audio Typing**

In this course, students will acquire audio typing skills. They will be trained how to create typed documents from dictated or recorded sound files. They will be able to listen to dictated documents using either a special cassette player or software on his or her computer and types out the information.

## **HOTEL & HOSPITALITY MANAGEMENT**

### **BHHM 1201 Tourism Management**

This course prepares students to work in the dynamic tourism industry in sectors like hospitality, travel and tourism. The course will give you the knowledge and understanding how tourism businesses operate, how tourists behave and what impact tourism has on countries, cultures and the environment. It also helps to develop a wide range of skills that can be applied to a variety of managerial and entrepreneurial roles in the expanding tourism industry.

### **BHHM 2102 Fundamental of Catering & Hotel Mgt**

This course will introduce the student to a comprehensive look at planning, starting and operating a successful catering business. Whether on premise, off-premise, inside a hotel, part of a restaurant or run from a home kitchen, the student will learn the necessary skills from competence in cooking to hotel managerial skills.

### **BHHM 2103 Hospitality Facilities Management**

This course will introduce students to the key components involved in the design and management of hospitality facilities. The student will acquire knowledge of the following: the nature of hospitality facilities, maintenance needs, the primary facility systems, lodging and food service design and renovation. Today's growing hospitality industry requires managers who understand the basic elements of facility design and renovation. This course provides students the required knowledge to become successful managers in the field of hospitality.

### **BHHM 2104 Ethics in Hospitality**

Hospitality Ethics is designed to teach students to recognize and analyze ethical dilemmas and respond appropriately. To teach the students the ethical principles in Hospitality, and its role into decision making.

### **BHHM 2205 Hotel & Catering Law**

This course introduces the student to the legal aspect of hotel and catering operations. Issues to do with compliance, contracting, safety, Individual Rights and duties in relation to the contract of employment and licensing law.

### **BHHM 2206 Food & Beverage Service**

This course provides students with skills and knowledge for effective management of food service operations. It presents basic service principles while emphasizing the importance of meeting the needs and, whenever possible, exceeding the expectations of guests.

### **BHHM 2207 Accommodation Operations**

This module will prepare learners for a career in accommodation services by introducing them to the concept of accommodation, its evolution, and the various types of accommodation. It will focus on the definition of accommodation, the types, and the overview of the hotel industry.

### **BHHM 3208 Front Office Management**

This course equips learners with knowledge and skills required to work as part of a Hotel reception team. Learners will develop knowledge and skills required for handling guest arrivals and departure. They will also be able to understand the importance of using correct communication when interacting with guests. Learners will develop an understanding of the role played by demographics, culture and nationality and how this can assist in interacting with guests and providing a more personalized service. In addition learners will through practical activities develop confidence in handling guest requests and dealing with challenges that typically arise during a guests stay or during check out.

### **BHHM 3109 Food Production I**

This course introduces students to the history of cooking, imparts them with knowledge about different kitchen equipment, Heavy and Light equipment, Utensils & Knives, Care & maintenance. Also imparts Knowledge of various culinary terms, level of skill, attitude towards work, behaviour & personal hygiene, and the Foundation ingredients & their role in food production

### **BHHM 3110 Nutrition & Dietetics**

Nutrition & Dietetics focuses on everything related to food and its effect on human health and overall wellbeing. Nutritionists and dietitians aim to improve people's health and help them make better dietary choices. They also help students find a balance between good eating habits and exercising.

### **BHHM 3111 Food & Beverage Service II**

The courses BHHM 2206 and BHHM 3111 will give the students a comprehensive knowledge and develop technical skills in the basic aspects of food and non-alcoholic beverage service operations in the Hotel Industry.

### **BHHM 3112 Housekeeping, Hygiene & Sanitation**

This course equips learners with the knowledge, skills and competence to service a hotel room. The housekeeping department is integral to the effective running of any hotel and the organization's success and customer satisfaction. This module will develop learners understanding of the correct methods and techniques to use when cleaning, servicing and maintain guest rooms. Learners will gain knowledge and skills in the cleaning and serving procedures that must be used and understood by housekeeping staff.

### **BHHM 3213 African Cuisine**

In this African cuisine course participant will learn a variety of African dishes, range from home cooking or casual dining rotating within each month with experienced chef instructors. The course will be fully hands-on with the arts and sciences of African cuisine, cooking techniques and plated presentation. Students will be introduced to classic home, casual, and comfort dining. A theory and practical course where participants will cook a variety of recipes whilst learning different terms and techniques allowing them build their culinary repertoires.

### **BHHM 3214 Food Production II**

This course provides students with the opportunity to manufacture processed food on a large scale under simulated industry conditions in compliance with legal requirements. Students will be involved in production runs of at least four different food products. Students will be expected to implement Good Manufacturing Practices as learned in Introduction to Food Technology and to apply quality management and food safety principles. They will also demonstrate an understanding of food science and processing technology relevant to the food they make.

### **BHHM 3215 Food Science & Nutrition**

This course integrates the relation between the production and consumption aspects of Food. Food Science and Nutrition course bring together the study of understanding the biological and chemical composition of food and how its preservation can affect the level of nutrition. The students are rendered with the knowledge of understanding the importance of hygiene and maintenance in order to know how food can be made worthy of consumption.

### **BHHM 3216 Food & Beverage Cost Control**

This course focuses on the principles and procedures involved in effective cost control management for food, beverage and labour in the Hospitality Industry. Students will develop skills in basic control procedures, internal control methods, methods used for cost analysis & cost adjustments as well as interpretation of financial information. The use of applicable computer applications will also be introduced.

## **ENTREPRENEURSHIP & SMALL BUSINESS MANAGEMENT**

### **BESB 2101 Basic Entrepreneurship**

It is a broad based course embodied with a lot of videos, simulations, among others. The students develop awareness about entrepreneurship; develop an entrepreneurial mindset by learning key skills such as creative thinking; understands the DNA of an entrepreneur and assess their strengths and weaknesses; and Access E-cells.

### **BESB 2102 Entrepreneurship Development 1**

Entrepreneurship development aims at exposing students to the process of improving the skills and knowledge of entrepreneurs through various training and classroom programs. The main focus of entrepreneurship development is to increase the number of entrepreneurs. Entrepreneurship development course concentrates on individuals who want to start or possibly expand a business. Entrepreneurship development also helps to enhance ideas and potential.

### **BESB 2203 Small Business Management**

This course incorporates current theory and practice relating to starting and managing small firms. It provides a comprehensive coverage of critical small business issues, numerous real-world examples to help students understand how to apply the business management concepts presented in the text, and incorporates material to help them explore small business issues in the amazing world of the Internet. The course covers the following topics: entrepreneurship being a world of opportunity, starting from scratch or joining an existing business, developing the new venture business plan, focusing on the customer and marketing growth strategies, managing growth in the small business, etc.

### **BESB 2204 Feasibility Study and Analysis**

The objective of this course is to make students adept in the process of testing and validating new business ideas in the market place. Background “Ideation” is a course about generating, developing, and evaluating ideas for launching innovative and viable new ventures. Ideation entails a process of discovery designed to lead toward the creation of dynamic and impactful enterprises, whether business or social ventures. The course covers many business concepts but does not assume or require prior business knowledge or experience.

### **BESB 2205 Intermediate Entrepreneurship**

This is an intensive practical course where students discover strengths and improvement areas in terms of entrepreneurial potential and make action plans; students learn customer development and prototyping, and ideation; set up a Campus Venture with friends; and create a business model and build a prototype.

### **BESB 2206 Financing Small Businesses**

The course covers the financial aspects of small business entrepreneurship for owners of sole proprietorships, partnerships, and small nonpublic corporations. We focus on: (1) updated financial statement coverage; (2) forecasting definitions and formulas; (3) equipment replacement by using the low cost model; (4) application of operation techniques to examples of small businesses including capital budgeting and working capital management; (5) use of financial statements for horizontal, vertical and ratio analysis; and, (6) basic math formulas for readers with limited mathematical backgrounds.

### **BESB 3107 New Venture Creation**

By linking theory and practice, the course aims to provide students with an entrepreneurial perspective and a hands-on experience in the development of new business ventures. Students in this course are helped to gain knowledge, skills and awareness of the actual process of getting a new venture started, growing the venture, successfully harvesting it, and again starting again. The mode of learning will be case studies and hands on exercises.

### **BESB 3108 Entrepreneurship Development 11**

This is an advanced course focusing on building entrepreneurial attitudes and behavior within individuals, organizations and communities as a way of enhancing development.

### **BESB 3109 Corporate Entrepreneurship**

This course seeks to equip students with the skills required to develop new ideas and create viable new businesses within the context of an established organization. The course will address the development of an internal culture of innovation, processes for reviewing ideas and for developing business concepts, strategic analysis, and positioning for competitive advantage.



### **BESB 3110 Creativity & Innovation**

This course intends to expose students on creativity; barriers to creativity and approaches for overcoming these; methods for generating or recognizing ideas; alternatives or possibilities to solve commercial or operational problems; turning creativity into innovation that benefits the customer and the business venture; bringing creativity and innovation into the organization and building an environment to support these activities. It will therefore enable the students to appreciate the benefits of creativity and innovation in enterprise growth.

### **BESB 3211 Comparative Business Management**

This focuses on impacting students with knowledge about the similarities and differences among business and management systems from different contexts. They will learn various management principles, and how they are applied from one situation to another. For example, international companies run researches to compare their policies and strategies with others in order to be stronger in the competition.

### **BESB 3212 Business Plan**

The student is expected to implement his/her business plan. The student will be guided through the introductory and growth stages of the business. Guidance on legal framework on business establishment will be done. Business incubation will also take effect. Establishment of networks with various investment and business enterprises will be carried forward. Field trips will still be done and reports made by the student. Exhibitions of the products made will be carried out. The student will be evaluated according to how he/she will have integrated theory and practice. Performance indicators will depend on the set indicators within the business plan, the extent to which entrepreneurship skills will have been applied in the business, nature of the business, and also the progress and success of the business.

## **BACHELOR OF ARTS IN HUMAN RESOURCE MANAGEMENT**

### **BHRM 2209 Human Resource Management**

This course includes an analysis of contemporary objectives and problems relating to human resources management in organizations. It includes a study of recruitment, selection, performance appraisals, training and development, supervision, compensation, pensions, grievances and disciplinary actions.

### **BHRM 2101 Human Resource Information Management System**

This course is designed to provide an introduction to the use of technology in the administration of human resources, and how new technologies can contribute significantly to the efficiencies in the management of a company's human capital. This course surveys the integration of Human Resource Management (HRM) with Information Systems technology. The course reviews the evolution of Human Resource Information Systems (HRIS), and examines the HRM role in information technology management. Students will assess information system's needs, identify HRIS applications, and plan for system implementation and acceptance for the enterprise.

### **BHRM 2102 Human Resource Planning**

This course explores different factors that managers should consider while making decisions in developing their human resources plans. It establishes human resource as a key strategic partner for businesses and stresses the need for proper planning in terms of human resource demand and supply to ensure labour needs of organizations are met effectively.



### **BHRM 2103 Staff Development & Performance Management**

This course examines the methods, practices and issues of facilitating learning related to occupational, professional and volunteer roles. It evaluates, analyzes, and applies techniques to effectively promote the training and development of human resources within workplace and community organizations; to increase awareness, knowledge and understanding of trends and issues related to the development of healthy organizations equipped to deal with rapid change.

### **BHRM 2205 Career Planning, Development & Management**

This course provides students with an opportunity to learn and develop the necessary skills to engage in life/career planning. The course can assist students in many areas of their career development, from understanding and assessing their strengths, interests, and priorities and deciding on their occupations. It is also designed to help students explore a variety of careers to consider and begin planning a career path. This course is great whether you already know what you want to do, or if you are undecided.

### **BHRM 2206 Organisational Change & Development**

This course is designed to address the issues, basic theories and methods associated with Organizational change and development in contemporary organizations. The students will be exposed to a number of organizational issues including, the need for change, why organizations change or fail to change, the legal and regulatory issues associated with change, and how change helps organizations become more competitive and profitable.

### **BHRM 2207 Compensation Management**

This course is designed to expose students to methods of employee compensation. Topics such as an introduction to compensation, development of compensation plans, different compensation methods and their advantages and disadvantages, trends in employee compensation, expense accounts and fringe benefits, etc.

### **BHRM 2209 Human Resource Management**

This course is designed to provide students with an understanding of human resource management (HRM) functions within organizations, including an appreciation of the roles of both HRM specialists and line managers in designing and implementing effective HRM policies and practices. With effective Human Resource Management, the organization acquires a competent and committed workforce, able to support the corporate strategy. Therefore organizations can create a competitive advantage through their people.

### **BHRM 2208 Occupational Health and Safety**

This course introduces the student to the study of workplace occupational health and safety. The student will learn safe work practices in offices, industry and construction as well as how to identify and prevent or correct problems associated with occupational safety and health in these locations as well as in the home. The course is designed to assist the student with the implementation of safe healthy practices at work and at home.

### **BHRM 3110 Strategic Human Resource Management**

This competency-based, course provides students with the understanding, knowledge, and skills to make strategic human resource management decisions. The course emphasizes practical activities, ranging from assessment of the global economic environment and organizational culture to the analysis of competencies and the implementation of human resource decisions. Students carry out a detailed strategic analysis of a human resource management issue in their organizations, and, in doing so learn how to effectively manage

human resources in a way that contributes to improved performance, productivity, and morale. Strategic Human Resource Management (SHRM) explores the relationship between the management of people and pursuit of an organization's strategic goals and objectives.

#### **BHRM 3111 Advanced Human Resource Management**

This course deals with contemporary issues and practical skills needed for the workplace. Some of these multitudes of contemporary employment relations / factors include social and legal aspects, technological, economic and psychological.

#### **BHRM 3213 Conflict Resolution & Negotiation**

Negotiation and conflict management are common occurrences in workplaces and our personal lives because people see things from different perspectives and do not always agree with one another. Conflict, contrary to general belief, need not be dysfunctional. Where properly managed, conflicts can lead to positive outcomes, such as improved understanding, better alternatives and increased satisfaction.

#### **BHRM 3214 H. R Policies & Practices**

This course is designed exclusively to equip the students with knowledge about Human Resource policies and practices used to manage people in the organizations. They define the philosophies and values of the organization on how people should be treated, and from these are derived the principles upon which managers are expected to act when dealing with Human Resource matters.

#### **BHRM 3112 Labour Laws and Industrial Relations/Welfare**

This course with laws governing human resource within the work setting in order to achieve a safe working environment. It course covers topics such as labour welfare; labour management relation laws; the principal of wage fixation; laws for wages and social security legislation, personnel management; labour economics, and many other related subjects.

#### **BHRM 3215 Human Resource Ethical Issues**

HR activities and performance are affected by employee ethical misconduct, in the 21st century where compensation, employees' relations and equal employment are the keys in the efficient HR delivery, the extent of employees ethical conduct plays a greater role towards attaining HR goals and objectives. This course is therefore meant to provide learners with great awareness of ethical practices and ethical misconduct affecting the HR practices, and how to cope up with them to enable efficiency in HR at work places.

### **BBA - PROJECT PLANING AND GRANT MANAGEMENT**

#### **BPPG 2101 Proposal Writing & Fundraising**

This is a practical introduction to the elements of proposal and grant writing: purpose and responsibility, organizational readiness, research, mechanics of preparation, development of a formal proposal/grant, and presentation. Students gain skills through hands-on practice identifying potential funders, and developing and refining their proposal.

#### **BPPG 3105 Managing Donor Relations and Partnerships**

This course helps students to learn issues regarding Grant Management and Donor Relations. It will cover all the necessary information required, procedures and activities during grant management and donor relations. This course will assist students how to identify donors, develop grant proposals and manage received grants effectively.

### **BPPG 3106 Project Resource Mobilization.**

For any successful entrepreneur to achieve the goals of the business, resources must be at hand. In the world, resources in terms of factors of production, human resources, finance, technology, etc are scarce. This course is aimed at exploring potential resources, and mobilizing these resources into business productivity.

### **BPPG 3209 Software Applications To Projects & Grants**

The application of the project management software packages comes to the scene as far as the application of these modern sophisticated project management tools, especially in the main functional area such as planning, scheduling, monitoring, progress controlling, cost controlling and the document controlling are concerned. The demand for the computer application therefore has been increasing rapidly as the benefits offered by these so called project management software packages are enormous.

### **BFNC 3203 Investment Analysis and Portfolio Management.**

This course deals with the following: The modern theory and practice of investments and portfolio management content; the theory of efficient markets; portfolio and valuation theory; speculative markets including options and futures; the structure of option markets and options contracts; option pricing models and their application to the valuation of contingent claims as convertibles; warrants, subordinated debt and guarantees. Introduction to commodity and financial futures contracts, investment environment; investment goals; nature of financial markets; measurement of asset risk and return; investment in stocks, bonds; options, futures contracts; investment in real estate; investment in the international markets; asset portfolio construction; portfolio performance evaluation; investment trusts.

### **BPPG 2203 Environmental Impact Assessment In Projects**

The course is designed to enable students understand and appreciate the beauty of the environment in which they live. As a result, they become conscious in protecting it from degradation through disposal. The topics include social responsibility, environmental ethical considerations, preservation and sustainability, water and sanitation, ecological principles, human population, resources, Environment and Technology, environmental quality and pollution, Waste product management /treatment, legal and administrative framework for EIA/EA, stakeholder and public participation in EIA/EA; environmental economics; environmental management systems standard and practices ;environmental information systems for EIA/EA; EIA methods ; environmental auditing; strategic environmental assessment; EIA/EA report writing; EIA/EA project report; review and decision making process; environmental management plan; EIA/EA project management; Social Impact Assessment (SIA); industrial ecology; occupational health & safety management; mainstreaming EIA/EA in organizations; multilateral environmental agreements and EIA; EIA case studies.

### **BPPG 3208 Strategic Project Planning & Management**

The Strategic Project Management program provides participants with the essential skills of modern project management within the context of a strategy focused organization. This program bridges the gap between strategy and practical project management, and trains project managers how to prioritize and manage projects more strategically. It is designed to give practitioners the tools, templates, and skills they need to deliver projects and initiatives on time, on budget, and within scope.

### **BPPG 3104 Project, Monitoring and Evaluation**

Project planning monitoring and evaluation skills have become important aspects of project development. To successfully implement a project or a program, an effective monitoring system must be put in place to ensure that projects and programs are on track and alternative measures are available in case the programs get off track. The focus of this course is to introduce to the students the proven techniques, guidelines, and strategies for successful planning, monitoring and evaluation to complete community or government projects on time.

### **BPPG 3107: Project Management Information Systems.**

Introduction to management information systems; project management information systems; information failures; values of the project information systems; describing project management information systems, uses of PMIS; information characteristics and attributes; sharing information; technology and PMIS; PMIS hardware and software; planning for PMIS; essentials of a PMIS; principles of project management information; project management situation.

### **BPPG 3210 Advanced Project Planning, Design & Implementation**

This course introduces students to the issues and techniques involved in the assessment and planning of development projects and their subsequent implementation and monitoring. It will include a review of formats and practices adopted by some development agencies and an examination of the contrasting approaches to the evaluation of costs and benefits from private as opposed to public sector perspectives. Significant hands-on calculation will be integrated into the tutorials to equip students with the requisite techniques.

## **DIPLOMA IN HUMAN RESOURCE MANAGEMENT**

### **DHRM 1201 Human Resource Management Principles**

This course is designed to provide students with an understanding of human resource management (HRM) functions within organizations, including an appreciation of the roles of both HRM specialists and line managers in designing and implementing effective HRM policies and practices. With effective Human Resource Management, the organization acquires a competent and committed workforce, able to support the corporate strategy. Therefore organizations can create a competitive advantage through their people. The focus is on developing and using various human resource policies for recruitment, selection, performance management, rewards, and development. Students will get insight into the basic challenges, strategic approaches and tools within these fields.

### **DHRM 1202 Human Resource Information Management System**

This course is designed to provide an introduction to the use of technology in the administration of human resources, and how new technologies can contribute significantly to the efficiencies in the management of a company's human capital. This course surveys the integration of Human Resource Management (HRM) with Information Systems technology. The course reviews the evolution of Human Resource Information Systems (HRIS), and examines the HRM role in information technology management. Students will assess information system's needs, identify HRIS applications, and plan for system implementation and acceptance for the enterprise.

### **DHRM 1203 Basic Human Resource Career Planning & Mgt**

This course introduces students with the opportunity to learn and develop necessary skills to career planning and management. The course will also boost students with skills in human resource management issues and understand how it molds their career in respective disciplines.

### **DHRM 2104 Human Resource Ethical Issues**

HR activities and performance are affected by employee ethical misconduct, in the 21st century. The extent of employee's ethical conducts plays a greater role towards attaining HR goals and objectives. This course is therefore meant to provide learners with great awareness of ethical practices and ethical misconduct affecting the HR practices, and how to cope with them to enable efficiency in HR at work places.

### **DHRM 2105 Negotiation and Conflict Management**

Negotiation and conflict management are common occurrences in workplaces and our personal lives because people see things from different perspectives and do not always agree with one another. Conflict, contrary to general belief, need not be dysfunctional. Where properly managed, conflicts can lead to positive outcomes, such as improved understanding, better alternatives and increased satisfaction.

### **DHRM 2106 Compensation & Benefits Management**

This course involves the systems used to ensure that there is an equitable payment system within the organization. It is designed to expose students to methods of employee compensation. Topics such as an introduction to compensation, development of compensation plans, different compensation methods and their advantages and disadvantages, trends in employee compensation, expense accounts and fringe benefits, etc.

### **DHRM 2207 Industrial Relations and Labour Laws**

This course examines the economic, social, legal, and political relationships among labour, management, and the state with emphasis on organized labour and unionized workplaces in Uganda. It aims to equip students with a perspective of industrial relations and collective bargaining. It further gives a highlight on the labour laws in Uganda which a Human Resource Manager must take into consideration before making any human resource decision.

### **DHRM 2208 Human Resource Training and Development**

This course clarifies the use of training and development in HRM. Students will be given an opportunity to plan and execute a training program including needs assessment, evaluating trainee learning style, motivating trainees, evaluation and many others.

### **DHRM 2209 Organisational Development & Change**

This course is designed to address the issues, basic theories and methods associated with Organizational change and development in contemporary organizations. The students will be exposed to a number of organizational issues including, the need for change, why organizations change or fail to change, the legal and regulatory issues associated with change, and how change helps organizations become more competitive and profitable.

### **DHRM 2210 Occupational Health and Safety**

This course introduces the student to understand occupational health and safety at work place. The student will learn safety and prevent issues associated with health practices at work and at home. The student will also be introduced with measures/ways of correcting certain aspects within the organization that is bound to affect them while working.

## **DIPLOMA IN PROCUREMENT & SUPPLY CHAIN MANAGEMENT**

### **DPSM 1201 Introduction to Purchasing Principles**

The role of purchasing in an organization cannot be ignored. This therefore calls for proper training and knowledge acquisition in this particular field. The purpose of this course is therefore to provide the necessary information in understanding purchasing processes and procedures, and its importance to an organization.

### **DPSM 1202 Introduction to Supply Chain Management**

This course examines the key ideas of supply chain management and how adopting and applying the concepts, frameworks and techniques developed for managing supply chains can contribute to improving organizational performance. It will provide students with tools and techniques to help them apply supply chain management ideas in their own organizational or professional context. The course will benefit those working in an explicit purchasing role within organizations. It will also appeal to others in an appropriate professional context whose role connects to supply chains, such as those involved in supply, logistics, commissioning, contracts, Human Resources or general management.

### **DPSM 2103 Introduction to Logistics And Supply Chain Processes**

This course covers the entire procurement and supply chain process. It is intended to enable the students to link the stages in the procurement and supply chain processes.

### **DPSM 2104 Procurement Records Management**

This course broadly offers skills and competencies in effective records management of the procurement transaction. It looks at the importance of records management, classification of procurement records, electronic procurement records skills for records management.

### **DPSM 2105 Legal Aspects of Procurement**

Legal Aspects of Procurement Management provides an up-to-date, concise account of those legal principles relating to the subject. Starting with the basic principles of contract and commercial law, it goes on to analyze the “battle of the forms”, legal tenders, breach of contract, and the implied rights of the buyer under the law. The latest position on competition law is also included. Sections on legal issues, insurance law, employment law and intellectual property rights reinforce material focusing on contractual terms and conditions, and how they can strengthen the rights and remedies available to organizations are dealt with in a most accessible way. It also provides a concise, up-to-date account of relevant legal principles. Highly accessible to procurement practitioners and students with little or no legal experience. Includes practical advice on how to answer law examination case studies. It also covers the requirements of the latest Chartered Institute of Purchasing & Supply (CIPS) Syllabus an invaluable support to candidates studying for CIPS and other professional qualifications.

### **DPSM 2206 Inventory Management**

This course is designed to enable those who work in procurement to gain a board understanding of the key requirement of controlling the supply of goods. The importance of stores and warehouse management, along with materials handling and the importance of inventory control as a method of improving efficiency to drive down costs associated with holding stock.



### **DPSM 2207 Integrity and Ethics In Procurement & Supply**

The encounter of moral dilemmas and contradictory moral behavior in procurement and supply process has provoked an inquiry into the nature and nurture of morality, with a view of finding ways to eliminate the moral dilemmas and contradictions. This course is designed to assist procurement and supply process students to answer some fundamental questions about life and what makes it worth living: what makes actions right? What makes us happy? What kind of qualities should a person should or should not have? How should we treat other people? What work ethic do we want to follow?

### **DPSM 2208 Public Procurement**

This course provides the fundamental principles and practices of government procurement. This does not involve procurement for private and profit making bodies nor non-governmental organisations.

## **DIPLOMA IN MANAGEMENT**

### **DPPM 2101 Project Planning & Management**

Project management as management discipline underpins much economic activity. In industries as diverse as pharmaceuticals, food production, education, and research, projects drive business. In the public sector, it is effective project management that translates politicians' promises of new roads, schools and hospitals into gleaming new constructions that improve everyday life.

In the context of Uganda's economy, the emphasis is on job creation rather than job seeking for graduates. Project management as a course at business school is therefore of paramount importance. The course provides practical skills, concepts and principles applicable to planning, execution, and evaluation of self-based projects in the Ugandan concept.

### **DMGT 2201 Management & Organization Theory**

This course includes the development of management and organization theory, nature of the management process and function and its future development. The role of the manager as an organizer and director, the communication process, goals and responsibilities. It covers the concepts of Organization Management as applied to an organization. The company needs strong managers to lead its staff toward accomplishing business goals. Managers are more than just leaders; they are problem solvers, cheerleaders and have many different responsibilities at each level of management.

### **DMGT 2202 Strategic Management**

The course introduces the key concepts, tools, and principles of strategy formulation and competitive analysis. It is concerned with managerial decisions and actions that affect the performance and survival of business enterprises. The course is focused on the information, analyses, organizational processes, skills, business managers must use to devise strategies, position their businesses, define firm boundaries and maximize long term profits in the face of uncertainty and competition.

### **DPSM 2104 Purchasing & Supplies Management**

Purchasing & supplying have become of strategic importance to firms, in helping them achieve their goals and objectives. This is only possible if the purchasing and supply procedures are followed. It is also designed to enable students apply the fundamental principles of procurement and supply chain in a variety of contexts. It also introduces the concept of supply chain management and evaluates the core fundamentals of logistics within commerce. It is comprised of all the parties involved in fulfilling a customer request. The integrated management of this network is a critical determinant of success in today's competitive environment.

### **DHRM 1201 Human Resource Management Principles**

This course involves a thorough study of the concept of Human Resource Management and how managers should handle personnel working in the organization. It will also entail study of the human resource management process which involves human resource planning, recruitment, selection, development, health and safety, compensation and human resource research. It further includes a study of internal employee relations, performance appraisal and many other concepts.

### **DMKT 2101 Basic Marketing**

The course focuses on various marketing strategies, including segmentation, targeting, positioning, and marketing mix (product, price, place and promotion) strategies and explores how those strategies contribute to the company's competitive advantage in the marketplace. The course provides students with managerial guides on the management of the marketing function.

### **DMKT 2202 Customer Care**

The course focuses on creating a mutual relationship between both internal and external customers. It also focuses on sales strategy and the sales management functions. It is also designed to familiarize students with business-to-business selling strategy, including sales relationships, including new organizational forms and organizational learning issues.

### **DECO 1101 Introduction to Elementary Economics**

This course aims to examine various micro economic theories, concepts, and tools of analysis and their relevance to business decision-making. It also examines different microeconomic principles and how they are applied in the understanding of real life situations. It will further help to develop knowledge and more understanding of current economic trends and developments around the world.

### **DECO 1202 Money, Banking & Public Finance**

This course is designed to introduce students with concepts of Money, Banking and Public Finance. An analysis of the role of money and its impact on the economy on inflation, unemployment, interest rates, income, and foreign exchange. The operations and relationships of commercial banks and the Federal Reserve are examined. It also covers introductory monetary, banking and finance theory and issues relating to policy and regulation of the banking and financial system.

### **DMAT 1202 Quantitative Methods:**

The main objective of this course is to help the students develop different techniques of analyzing and solving existing problems in business management. It covers the analysis of quantitative variables in relation to quantitative decision making techniques, techniques of scientific investigation, algebra, elementary calculus, linear programming, probability, time series, and index numbers, etc. It also involves probability, descriptive and inferential statistics. The course uses mathematical and statistical techniques to equip learners with analytical tools for decision making. The emphasis is on applications, and understanding of the concepts so as to be able to communicate the meaning of the statistical results.

### **DBSA 2203 General Principles of Law**

This is an introductory course designed to help business students acquaint themselves with the framework of Uganda's legal system and to understand the legal environment within which businesses operate. A part from the law of contract, students will also have



the opportunity to study the law of agency as well as the law of negligence. Students are introduced to general principles of law and familiarize students with the basic laws covering mercantile law contracts, sales partnerships, negotiable instruments, bailment, sureties, and bankruptcies. Students are also briefly exposed to the law of torts.

#### **DBSA 2204 Business Ethics Principles**

This introduces students to analysis of ethical issues arising in contemporary business life. It covers the concepts of ethics as applied to business, ethical business values and practices. Sample topics include: fair and unfair competition, responsibilities towards employees, society and the environment, honesty and integrity in business, and the moral status of corporations. Basic Principles are discussed and relevant values nurtured to shape the student to act in a manner sound and ethical all times.

#### **DENT 2101 Entrepreneurship Concepts**

This course covers the concepts of entrepreneurship. It is concerned with providing students with knowledge and skills of creating and operating their own business successfully, using available recourse to develop themselves and the country in general. It's going to be more of a practical course which requires students by the end of the course to have their own project plans.

#### **DACM 1201 Basic Business Communication Skills**

The major way of getting to understand anything and coordinate activities amongst people is to communicate the intention and what is required and if understood and done, a feedback is communicated. Communication is the channel for understanding. The students will study the major issues such as, role of language, management and leadership communication, channels of communication, barriers of communication, listening, responding, persuasion and writing and presentation.

#### **DFNC 1101 Business Finance & Investments Concepts**

This course looks at the theories of managerial approach to financial analysis, planning and control, management of working capital and long-term financing.

#### **DBSA 2204 Business Ethics Principles**

This introduces students to analysis of ethical issues arising in contemporary business life. It covers the concepts of ethics as applied to business, ethical business values and practices. Sample topics include: fair and unfair competition, responsibilities towards employees, society and the environment, honesty and integrity in business, and the moral status of corporations. Basic Principles are discussed and relevant values nurtured to shape the student to act in a manner sound and ethical all times.

#### **DREM2101 Introduction to Research methods**

This course will help students learn how to develop proposals. There are five subsections: Objectives, methods, staff/administration, evaluation, and sustainability. Together, objectives and methods dictate staffing and administrative requirements. They then become the focus of the evaluation to assess the results of the project. The project's sustainability flows directly from its success, hence its ability to attract other support. Taken together, the five subsections present an interlocking picture of the total project.

#### **DREP 2202 Introduction to Research Project**

This is mainly a field research course comprised of gathering primary data, analyzing, presenting the research based facts discovered. Students are guided to study, discuss and analyze the systematic and objective process of information generation to aid in business

decision. It is intended to equip student with the basic understanding and experience of business research scope as an applied approach course. Students will gain experience on the methods for collecting data, managing, structuring and computing the collected data, and analyzing the results.

## **DIPLOMA IN OFFICE ADMINISTRATION & SECRETARIAL STUDIES**

### **DOFA 1201 Records Management**

The course introduces learners to the basic concepts, principles and practices of records management. This is because without proper records management, an organization cannot operate effectively.

### **DOFA 1202 Customer Care**

The course focuses on creating good understanding between management and employees in an organization setting. However, much emphasis is put on ensuring clients accessing services in an organization are handled in the best way possible with the various employees in respective departments.

### **DBSA 1201 Data processing Skills**

This course prepares students to master the alphanumeric keyboard, typing of basic documents such as tables, straight copies, and basic correspondence. The skill of 25 words per minute with 5% error allowance in 10 minutes is required.

### **DOFA 1201 Records Management**

This course introduces the principles and practices associated with managing records of all formats in private and public sector organizations. It addresses the benefits of sound records management and outlines the principles and practices that are required to ensure evidence of day to day business is correctly documented. It covers the key strategies tools and processes that ensure records (and the information within them) are accessible, compliant, well managed, and less open to risk. It explains what records and documents are, and how they should be classified, organized, accessed, used and disposed of.

### **DOFA 2103 Key Board Skills 1**

This is a practical course that involves introduction to the keyboard as an input device, and the appropriate techniques for using it, as a pre-requisite course unit document production. It studies such issues as the overview of the keyboard machine, parts of a manual typewriter, the different keys, introduction to blind touch techniques, alphabetical review, spacing, paper size and layout, paragraphing, headings, single page documents, and simple tabulation.

### **DOFA 2102 Shorthand 1**

It introduces learners to the concept of the art of representing spoken sounds by written signs. In this course students are introduced to the Principles and theory of Pitman Shorthand, how to read and write shorthand fluently, linguistic skills, etc.. The intended speed building is 60/70 words per minute with a minimum of 10 errors in 10 minutes. Topics include: Halving hooked strokes (S/D), Circles and Loops, Diaphones, final vowel indications, initial vowel indications, halving, doubling (curved strokes) doubling (straight strokes) doubling for mp/mb+r, Con, Com, Cog, Figures, units and punctuation marks.

### **DOFA 2205 Key Board Skills 11**

This course covers both intermediate and advanced tasks. It enables students acquire complete mastery of the keyboard for speed and accuracy. Topics to be covered: Working with files: creating, saving, and managing files, editing and formatting, print-ing, creating different kinds of reports and other business correspondence, business forms, statistical technical reports, employment communication; cutting and pasting texts within and between document; mail merge, headers and footers, foot notes and end notes in reports, find and replace advance-ment levels tables and charts applications, creating brochures, proofreading and editing document will be given much emphasis.

### **DOFA 2208 Corporate Secretarial Practice**

This module examines the role of the Corporate Secretary in promoting and reinforcing good governance across the organization by ensuring compliance with statutory obligations and good practice. In particular, this module explains the role of the Corporate Secretary in devising and overseeing appropriate compliance systems and processes to ensure that the company and its directors are compliant with corporate within the country of operation. Corporate Secretaries need to understand the application of statutory requirements and other best practice and how this underpins good governance and compliance, irrespective of sector.

### **DOFA 2206 Shorthand 11**

More advanced work of shorthand. Development of shorthand skills, use of taped passages for speed development, speed building 80/100 wpm with a minimum error of 5 in 10 min. Topics include: and intensive consolidation of the theories and principles introduced in shorthand I, a steady development of speed writing, intensive reading and writing practice, transcription (70/80 w.p.m)

### **DPAM 2101 Public Administration**

The course aims at teaching learners the meaning, scope and essence of Public Administration. Classical and contemporary theories of Public Administration will also be addressed. It is also aimed at providing an all-round education that will enable graduates to acquire academic expertise and competences that are essential in the management of public affairs. In addition, it also equips students with competencies and skills to become effective administrators and managers, effective communicators who can deal with the challenges in public service

### **DOFA 2207 Office Organization and management**

The course intends to impart modern office organization and management skills to the learners. This course is designed to prepare students for immediate employment in any office. It aims at the mastery of office procedures, and responsibilities of an executive secretary/office administrator, solving office problems, a view and practice of skill previously learned. Desirable attitude, good work habits, initiative, proper decorum are developed through the course.

## Business School List of Lecturers

Ag. Dean

**Atandi Fred**, PhD (Ent) (JKUAT), MBA (Ent) (Kenyatta), BA (Mgt) (Moi).

### Department of Accounting and Finance

Head of Department

**Mupaghasi, Zipporah**, MBA (Acc) (Solusi), BBA (Acc) (Bugema).

### Full-time Faculty

**Birungi, Grace**, MBA (Acc) (UMI), CPA (U) Level 5, CPAU (U), Dip. Bus. Stud. (UCC, Kabale).

**Chifunda M. Vera**, MBA (Acc & Fnc), PGD (Public Admin), BBA (Fnc), DBA (Bugema), CIPS (UK).

**Katamba N. Sarah**, MBA (Acc & Fnc) (Bugema), ACCA (UK), CPA (U).

**Katiti K. Racheal**, MBA (Acc & Fnc), BBA (Acc) (Bugema).

**Nkambwe B. Roy**, MBA (Acc & Fnc), BBA (Acc) (Bugema).

**Kawooya N. Angela**, MBA (Fnc) (Uganda Martyrs), BBA (Ac.) (Bugema).

**Musisi, Peter**, MBA (Acc & Fnc), BBA (Acc/Fnc) (Bugema).

**Nambalirwa Patience**, MBA (Acc & Fnc) (Bugema), Adv. Web Design. & Comp. Maint. (Mobetech), BBA (Bus. Comp.) (MUBS).

**Nambi Susan**, MBA (Mgt), BBA (Acc) (Bugema).

**Nyatika Godfrey**, MBA (Acc & Fnc), BBA (Acc) (Bugema).

**Sebunya, Jeremiah**, MBA (Acc. & Fnc.), BBA (Fnc) (Bugema).

**Syokau M. Veronica**, MBA (Acc & Fnc), BBA (Griggs).

### Contract/Adjuncts Faculty

**Amoah G. Rose**, MBA (Acc) (UEA, Baraton), BBA (Acc.) (Bugema).

**Atuha Sanctus**, MBA (Acc & Fnc) (Bugema), CPA (Level III) (U), BBA (Acc) (Bugema).

**Birungi S. Bitamazire**, CFA (U) (Level II), MSc (Intl Fnc Mkt) (Southampton), MBA ((Fnc/Acc) ) (KIU), CoP (IC, Nairobi), BBA (Acc) (Kampala).

**Byiringiro Clement**, MBA (Fnc), BBA (Fnc) (SavitribaiPhulePume).

**Muhindo Elvin**, MBA (Fin. & Acc.), BBA (Acc) (Bugema).

**Nabulya Jesca**, MBA (Fnc & Acc), PGD (Bus. Admin) (Ndejje), BA (Ed) (Makerere).

### Teaching Assistant

**Akumu Brian**, MBA (Acc & Fin) in progress (Bugema), BBA (Acc) (Bugema).

**Mulemwa T. Mulemwa**, MBA (Acc & Fin) in progress (Bugema), BBA (Acc) (Bugema), BA (Public Rel. & Advert.) (Dar es Salaam), CoP (General Insurance) (IIU).

## Department of Management

### Head of Department

**Nalumu T. Juliet**, Lecturer, PhD in Progress (Kabarak), MBA, BBA (Acc. & Mgt) (Bugema).

### Full-time

**Baleeta John**, MA (Sch. Admin) (Andrews, USA), BBA (Mgt) (UEA, Baraton).

**Lubowa, Martin**, PhD in Progress (Kabarak), MBA (Solusi), BBA (Acc) (Bugema).

**Nerima Esther**, MA (Econ) (Dar- es-salaam), BA (Dev. Econ) (Makerere).

**Odoyo Teddy**, MBA (Project Plan), BBA (Fnc) (Bugema).

### Contract/Adjuncts

**Amani Joseline**, MBA (Project. Plan), BBA (Project. Plan) (Bugema).

**Arinaitwe Enid**, MA (Public Admin), B. Office Mgt & Sec. Stud.

**Asadi Ayasi**, MSc (Procurement), CIPs, BSc (Procurement).

**Damulira Joseph**, MMS (HRM), PGD (HRM (UMI), BA (Ed) (Bugema).

**Kemigisa Winnie**, MBA (Mkg Mgt) (NIBM, India), BBA (Fnc) (Karnataka, Dharwad).

**Kyaminyawandi Benjamin**, MBA, BA (Ed) (Makerere).

**Lule George**, MA (Econ. Policy & Plan) (Makerere), BA (Ed) (Kyambogo).

**Mpande Allen**, MBA (HRM) (Bugema), LLB.

**Mpatasirwa Nathan**, MBA (Mgt) (Kabale), B.Ed (Makerere), Dip.Ed. (Kyambogo).

**Mugal Dan**, MBA (Mktg) (MUBS).

**Mugumya, Dickens**, MHRM Team Institute), MFC (Amity, India), BASS (Kyambogo).

**Musisi Rebeca**, BBA (Secretarial) (Bugema).

**Nakayima Faridah, M.** Procurement. B. Proc. and Sup. Chain Mgt (MUBS).

**Nakaweesa L Loy**,

**Nalunkuuma Milly**, MBA, BBA (Ndejje).

**Ogeto D. Raphael**, MBA (Proc), BBA (Proc/Mgt) (Bugema).

**Okello Eri**, MBA (Proc. & Log) (Bugema), BBA (Mgt) (UCU Mukono).

### Teaching Assistants

**Kahindo Mary**: MBA (Mgt)(Candidate), BBA (Mgt).

**Magiri Rabius**: MBA (Acc/Fnc) (Candidate), BBA (Acc).

# **SCHOOL OF COMPUTING & INFORMATICS (SOCI)**

## SCHOOL OF COMPUTING & INFORMATICS (SOCI)

**Ag. Dean Lowu Francis**, MSc. (Comp. Sci.) (Makerere), BSc (Physics/Math) (Makerere)

### **Viewpoint**

The School of Computing & Informatics believes in developing the mind through critical thinking skills to enhance innovation among faculty, staff and students. The school looks at collectively changing the community through collaborative research development and innovation using multidisciplinary partnership approach.

### **Vision:**

To be a one stop focal point for computer science innovations and network systems security

### **Mission**

To prepare an innovation mind of a person

### **Goals**

- The goals of the school are;
- To train students with the computational skills that can be used innovatively to change communities
- To be a center for innovation in informatics science and network security
- To conduct and share computer science and information systems research for national development

### **Departments**

The school is made up of two departments namely;

- Department of Systems Engineering
- Department of Information Systems

### **Programmes**

The school through the two departments has the following programmes at both the graduate and undergraduate level.

#### **Graduate programmes**

- Masters of Science in Information Technology (Information Systems)
- Postgraduate Diploma – Information Technology
- Masters of Science in Information Technology (Network Security)
- Masters of Science in Information Technology (Software Engineering)

#### **Undergraduate programmes**

- Bachelor of Business Computing
- Bachelor of Library and Information Science
- Bachelor of Science in Software Engineering
- Bachelor of Science in Network Systems Administration
- Bachelor of Science in Computer Engineering
- Diploma in Computer Forensics
- Diploma in Information technology
- Certificate in Information Technology

All programmes offered at undergraduate are three year programmes; however, for international students who have to take four years they have to the Higher Education certificate for one year and then join the main degree programme they applied for. Diploma and Certificate take two years each, the variation is in the graduation load.

#### **Short Course Academies**

The school has two short course academies.

### **The Oracle Academy**

The Oracle Academy at Bugema University School of Computing & Informatics caters for having computer science knowledge and the skills are essential in the area of programming using Java and Database management systems. The Academy runs throughout the year and it trains both individuals who are either employed or still in schools. The skills gained can be used to get an international certification in Java programming or Database management systems.

### **Cisco Academy**

The schools also run CISCO Networking Academy. This academy runs a number of courses cuttings across networking, to programming and systems security. We train individuals from all organizations and our students in the area of cyber security, internet of things, penetration testing using Kali Linux and programming in C, C++ and Python. Students can have Certification in CCNA, CCENT and CCNA Security. Bugema University CISCO Academy is the strongest CISCO academy today in Uganda since its inception 10+ Years ago.

### **Admission Requirements**

- A student to be admitted to the program, he/she must fulfill the admission requirements of Bugema University at the undergraduate level. A student should have the following;
- A Uganda advanced certificate of Education with two/one principal pass, Uganda Certificate of Education with at least five passes all obtained at the same seating are considered for either diploma or degree.
- A diploma/Certificate obtained from an institution recognized by NCHE or its equivalent
- A mature age entry requirement obtained from a relevant institution recognized by NCHE.

### **Important To All Students In The Schools**

Alongside the normal semester courses, students are required to take online CISCO/ORACLE short courses to help enhance their skill to the required international Level for better innovation and employability. Such courses are charged separately from the tuition – as an add-on skill. It's Compulsory for all students. Certificates are awarded for each course completed. Both CISCO and ORACLE Academy courses are considered.

### **Intakes**

The School has three intakes in any given academic year, these include' *August Intake (Starting of the Academic Year) January Intake, May Intake*  
Applications are Ongoing – Please send a friend to apply NOW!!

### **Professional Enrichment Activities**

All students in the school subscribe automatically to the Information technology club (IT Club). Students are supposed to pay an amount as per the club's constitution. Students in the School of Computing & Informatics have the opportunity to gain from the following activities;

Practical professional experience in computer engineering, information systems, software engineering and networking

Workshops, seminars and symposiums

Leadership skills – every student is free to stand for leadership post

IT Club Activities

Career Guidance and many others



## DEPARTMENT OF SYSTEMS ENGINEERING

**Vision:** To train students who can solve community problems through engineering innovations

### BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING

#### Degree Requirement Summary

General Courses Requirement	21
Major Concentration	51
Cognate Requirements	48
Research Project	06
Industrial Attachment	06
<b>Total</b>	<b>130</b>

#### Major

Code	Title	LH	TH	PH	CH	CU
BSCT 1111	Software Engineering Ethics	30	30	0	45	3
BSCT 1112	Programming Concepts Using C	30	0	30	45	3
BSCT 1213	Software Engineering	30	30	0	45	3
BSCT 1214	Programming Using VB.Net	30	30	0	45	3
BSCT 1215	Python Programming	30	0	30	45	3
BSCT 2116	OOP Using Java	30	0	30	45	3
BSCT 2117	Data structures and Algorithms	30	30	0	45	3
BSCT 2218	Linux Basics	30	0	30	45	3
BSCT 2219	User Interface Design	30	30	0	45	3
BSCT 2220	Android Programming	30	0	30	45	3
BSCT 3221	Open Source Software	30	0	30	45	3
BSCT 3122	Software Architecture & Design	30	30	0	45	3
BSCT 3123	Artificial Intelligence Concepts	30	30	0	45	3
BSCT 3124	Application Dev't Frameworks	30	0	30	45	3
BSCM 1201	Computer Science Mathematics I	30	30	0	45	3
BSCM 1202	Discrete Mathematics	30	0	30	45	3
BSCM 2103	Computer Science Mathematics II	30	30	0	45	3

#### Cognate

Code	Title	LH	TH	PH	CH	CU
BBCT 1111	Funds of Relational Database Sys.	30	0	30	45	3
BBCT 1116	Fundamentals of Web Development	30	0	30	45	3
BBCT 1213	Information System	30	30	0	45	3
BBCT 2114	System Analysis & Design	30	30	0	45	3
BBCT 2115	Relational Database Systems II	30	0	30	45	3
BBCT 2213	Internets and Web Programming	30	0	30	45	3
BBCT 3118	Simulation & Modeling	30	30	0	45	3
BBCT 3221	Business Intelligence System	30	0	30	45	3
BENT 2101	Basic Entrepreneurship	30	0	30	45	3
BNCT 2214	Computer networks & Data Communication	30	30	0	45	3
BNCT 2216	Windows Client Server Admin.	30	30	0	45	3
BNCT 2217	Network and Information Security	30	30	0	45	3
BNCT 3219	Parallel and Distributed Systems	30	30	0	45	3
BNCT 3220	Linux Client Server Administration	30	0	30	45	3
BNCT 3222	Operating Systems	30	30	0	45	3

**Research**

Code	Title	LH	TH	PH	CH	CU
BRMC 3101	Research Methods in Computing	30	0	30	45	3

**General Education Courses**

Code	Title	LH	TH	PH	CH	CU
GECC 1101	Funds of Computers and Office Application	45	0	30	60	4
GECL 1101	Introduction to Writing Skills	30	30	0	45	3
GECH 1101	Health Principles	30	30	0	45	3
GECS 1202	Statistics	30	30	0	45	3
GECA 1202	Principles of Sociology	30	30	0	45	3
GECR 1101	Christian Beliefs	30	30	0	45	3
GECV 1201	Motor Vehicle Driving	15	0	45	30	2

**Industrial Attachment**

Code	Title	LH	TH	PH	CH	CU
BSCI 3301	Industrial Attachment	0	0	270	90	6

**Project**

Code	Title	LH	TH	PH	CH	CU
BPCT 3101	IT Project Management	30	0	30	45	3
BPCT 3202	Systems Project	0	60	90	45	3

**Semester Schedule****First Year 1****Semester 1**

Code	Title	LH	TH	PH	CH	CU
BBCT 1111	Funds of Relational Database Sys.	30	0	30	45	3
BBCT 1112	Fundamentals of Web Dev't	30	0	30	45	3
BSCT 1111	Software Engineering Ethics	30	30	0	45	3
BSCT 1112	Programming Concepts Using C	30	0	30	45	3
GECC 1101	Funds of Comp. & Office Application	45	0	30	60	4
GECH 1101	Health Principles	30	30	0	45	3
GECL 1101	Introduction to Writing Skills	30	30	0	45	3
<b>Total</b>						<b>22</b>

**First Year 1****Semester 2**

Code	Title	LH	TH	PH	CH	CU
BBCT 1215	Information System	30	30	0	45	3
BSCM 1201	Computer Science Mathematics I	30	30	0	45	3
BSCM 1202	Discrete Mathematics	30	0	30	45	3
BSCT 1213	Software Engineering	30	30	0	45	3
BSCT 1214	Programming Using VB.Net	30	30	0	45	3
BSCT 1215	Python Programming	30	0	30	45	3
GECS 1202	Statistics	30	30	0	45	3
GECV 1201	Motor Vehicle Driving	15	0	45	30	2
<b>Total</b>						<b>23</b>

**Second Year****Semester 1**

Code	Title	LH	TH	PH	CH	CU
BBCT 2115	Relational Database Systems II	30	0	30	45	3

BBCT	2114	System Analysis & Design	30	30	0	45	3
BSCM	2103	Computer Science Mathematics II	30	30	0	45	3
BNCT	2113	Computer Architecture & Org.	30	30	0	45	3
BSCT	2116	OOP Using Java	30	0	30	45	3
BSCT	2117	Data structures and Algorithms	30	30	0	45	3
GECL	1101	Christian Beliefs	30	30	0	45	3
<b>Total</b>							<b>21</b>

<b>Second Year</b>		<b>Semester 2</b>					
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BBCT	2213	Internet and Web Programming	30	0	30	45	3
BNCT	2214	Computer networks & Data Communication	30	30	0	45	3
BNCT	2216	Windows Client Server Admin.	30	30	0	45	3
BNCT	2217	Network and Information Security	30	30	0	45	3
BSCT	2219	User Interface Design	30	30	0	45	3
BSCT	2220	Android Programming	30	0	30	45	3
BSCT	2218	Linux Basics	30	0	30	45	3
<b>Total</b>							<b>21</b>

<b>Summer</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSCI	3301	Industrial Attachment	0	0	270	90	6

<b>Third Year 3</b>		<b>Semester 1</b>					
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BBCT	3118	Simulation & Modeling	30	30	0	45	3
BPCT	3101	IT Project Management	30	0	30	45	3
BRMC	3101	Research Methods in Computing	30	0	30	45	3
BSCT	3122	Software Architecture & Design	30	30	0	45	3
BSCT	3123	Artificial Intelligence Concepts	30	30	0	45	3
BSCT	3124	Application Dev't Frameworks	30	0	30	45	3
BENT	2101	Basic Entrepreneurship	30	0	30	45	3
<b>Total</b>							<b>21</b>

<b>Third Year 3</b>		<b>Semester 2</b>					
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSCT	3221	Open Source Software	30	0	30	45	3
BNCT	3219	Parallel and Distributed Systems	30	30	0	45	3
BNCT	3220	Linux Client Server Administration	30	0	30	45	3
BPCT	3202	System Project	0	60	90	45	3
BNCT	3222	Operating Systems	30	30	0	45	3
BBCT	3221	Business Intelligence System	30	0	30	45	3
<b>Total</b>							<b>18</b>

**Grand Total Credit Hours** **130**

## BACHELOR OF SCIENCE IN NETWORK SYSTEMS ADMINISTRATION

### Degree Requirement Summary

General Courses Requirements	21
Major Concentration	63
Cognate Requirements	34
Research Project	06
Industrial Attachment	06
<b>Total</b>	<b>130</b>

### Major

Code	Title	LH	TH	PH	CH	CU
BNCT 1111	Internet Working & Cabling Practice	30	0	45	45	3
BNCT 1212	Network Engineering & Mgt	30	30	0	45	3
BNCT 2113	Computer Architecture & Organ	30	30	0	45	3
BNCT 2214	Computer Networks & Data Communication	30	30	0	45	3
BNCT 2215	Telecommunication Networks	30	30	0	45	3
BNCT 2216	Windows Client Server Admin.	30	30	0	45	3
BNCT 2217	Network and Information Security	30	30	0	45	3
BNCT 3118	Network Design & Management	30	0	0	45	3
BNCT 3219	Parallel and Distributed Systems	30	30	0	45	3
BNCT 3220	Linux Client Server Administration	30	0	45	45	3
BNCT 3221	PC Hardware Repair & Maintenance	30	0	45	45	3
BNCT 3222	Operating Systems	30	30	0	45	3
BSCT 1215	Python Programming	30	0	30	45	3
BSCT 2116	OOP Using Java	30	0	45	45	3
BBCT 2115	System Analysis & Design	30	30	0	45	3
BSCT 2117	Data structures and Algorithms	30	30	0	45	3
BSCT 2220	Android Programming	30	0	30	45	3
BSCT 2218	Linux Basics	30	0	45	45	3
BSCT 3123	Artificial Intelligence Concepts	30	30	0	45	3

### Cognate

Code	Title	LH	TH	PH	CH	CU
BBCT 1111	Funds of Relational Databases Sys.	30	0	45	45	3
BBCT 1112	Fundamentals of Web Development	30	0	30	45	3
BBCT 1216	Multimedia Systems	30	0	45	45	3
BBCT 2115	Relational Databases Systems II	30	0	45	45	3
BBCT 2213	Internets and Web Programming	30	0	45	45	3
BENT 2101	Basic Entrepreneurship	30	30	45	60	4
BSCM 1201	Computer Science Mathematics I	30	0	30	45	3
BSCM 1202	Discrete Mathematics	30	0	30	45	3
BSCM 1203	Computer Science Mathematics II	30	30	0	45	3
BSCT 1112	Programming Concepts Using C	30	0	45	45	3
BSCT 1214	Programming Using VB.Net	30	0	45	45	3
BSCT 3221	Open Source Software	30	0	45	45	3
BBCT 3118	Simulation & Modeling	30	0	45	45	3

### Research

Code	Title	LH	TH	PH	CH	CU
BRMC 3101	Research Methods in Computing	30	0	30	45	3

**General Courses**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECL 1101	Introduction to Writing Skills	30	30	0	45	3
GECC 1101	Fundamentals of Computers and Office Application	45	0	45	60	4
GECH 1101	Health Principles	30	30	0	45	3
GECR 1101	Christian Beliefs	30	30	0	45	3
GECS 1202	Statistics	30	30	0	45	3
GECV 1201	Motor Vehicle Driving	15	0	45	30	2

**Summer**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSCI 3301	Industrial Attachment	0	0	270	90	6

**Project**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BPCT 3101	IT Project Management	30	0	45	45	3
BPCT 3202	Systems Project	30	0	45	45	3

**First Year**

<b>Semester 1</b>		<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
<b>Code</b>	<b>Title</b>					
BNCT 1111	Internet Working & Cabling Practice	30	0	45	45	3
BBCT 1112	Fundamentals of Web Development	30	0	30	45	3
GECC 1101	Fundamentals of Computers and Office Application	45	0	45	60	4
BSCT 1112	Programming Concepts Using C	30	0	45	45	3
GECH 1101	Health Principles	30	30	0	45	3
BBCT 1111	Funds of Relational Databases Sys.	30	0	45	45	3
GECL 1101	Introduction to Writing Skills	30	30	0	45	3
<b>Total</b>						<b>22</b>

**First Year**

<b>Semester 2</b>		<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
<b>Code</b>	<b>Title</b>					
BBCT 1216	Multimedia Systems	30	0	45	45	3
BNCT 1212	Network Engineering & MGt	30	30	0	45	3
BSCM 1201	Computer Science Mathematics I	30	0	30	45	3
BSCM 1202	Discrete Mathematics	30	0	30	45	3
BSCT 1214	Programming Using VB.Net	30	0	45	45	3
BSCT 1215	Python Programming	30	0	30	45	3
GECS 1202	Statistics	30	30	0	45	3
GECV 1201	Motor Vehicle Driving	30	0	30	45	2
<b>Total</b>						<b>23</b>

**Second Year**

<b>Semester 1</b>		<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
<b>Code</b>	<b>Title</b>					
BSCT 2116	OOP Using Java	30	0	45	45	3
BSCM 1203	Computer Science Mathematics II	30	30	0	45	3
BBCT 2112	Relational Databases Systems II	30	0	45	45	3
BBCT 2114	System Analysis & Design	30	30	0	45	3
BNCT 2112	Computer Architecture & Organ	30	30	0	45	3
BSCT 2117	Data structures and Algorithms	30	30	0	45	3
GECR 1101	Christian Beliefs	30	30	0	45	3
<b>Total</b>						<b>21</b>

<b>Second Year:</b>		<b>Semester 2</b>				
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BSCT	2218	Linux Basics	30	0	45	45 3
BBCT	2213	Internet and Web Programming	30	0	45	45 3
BNCT	2214	Computer Networks & Data Communication	30	30	0	45 3
BNCT	2215	Telecommunication Networks	30	30	0	45 3
BNCT	2216	Windows Client Server Admin.	30	30	0	45 3
BNCT	2217	Network and Information Security	30	30	0	45 3
BSCT	2220	Android Programming	30	0	30	45 3
<b>Total</b>						<b>21</b>

<b>Summer</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BSCI	3301	Industrial Attachment	0	0	270	90 6

<b>Third Year:</b>		<b>Semester 1</b>				
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BSCT	3123	Artificial Intelligence Concepts	30	30	0	45 3
BPCT	3101	IT Project Management	30	0	45	45 3
BNCT	3118	Network Design & Management	30	0	0	45 3
BRMC	3101	Research Methods in Computing	30	0	30	45 3
BENT	2101	Basic Entrepreneurship	30	30	45	45 3
BBCT	3118	Simulation & Modeling	30	0	45	45 3
<b>Total</b>						<b>15</b>

<b>Third Year:</b>		<b>Semester 2</b>				
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BBCT	3221	Business Intelligence System	30	0	30	45 3
BNCT	3219	Parallel and Distributed Systems	30	30	0	45 3
BNCT	3220	Linux Client Server Administration	30	0	45	45 3
BNCT	3221	PC Hardware Repair & Maintenance	30	0	45	45 3
BNCT	3222	Operating Systems	30	30	0	45 3
BPCT	3202	Systems Project	30	0	45	45 3
BSCT	3221	Open Source Software	30	0	45	45 3
<b>Total</b>						<b>21</b>
<b>Grand Total Credit Hours</b>						<b>130</b>

## BACHELOR OF SCIENCE IN COMPUTER ENGINEERING (BSCE)

### Degree Requirement Summary

General Courses Requirements	21
Major Concentration	54
Cognate Requirements	76
Research Project	06
Industrial Attachment	08
Workshop	08
<b>Total Graduation Hours</b>	<b>170</b>

### Major

Code	Title	LH	TH	PH	CH	CU
BSCE 1111	Fundamentals of Electronics	35	20	00	45	3
BSCE 1213	Electronic Hardware Devices	25	40	00	45	3
BSCE 1214	Circuit Theory and analysis	50	20	00	60	4
BSCE 1215	Engineering Architecture & Drawing	30	60	00	60	4
BSCE 2116	Principles of Electronic Circuits	30	30	00	45	3
BSCE 2117	Microprocessors& Microcontroller	30	30	00	45	3
BSCE 2218	Digital and Analog Electronics	45	30	00	60	4
BSCE 2219	Continuous Linear Systems	33	00	24	45	3
BSCE 3120	Discrete Linear Systems	33	00	24	45	3
BSCE 3121	Communications Sys. Engineering	48	16	08	60	4
BSCE 3222	Signal processing	30	30	00	45	3
BSCE 3223	Instrumentation and Measurements	35	20	00	45	3
BSCE 3224	Digital Systems Design	30	30	00	45	3
BSCE 4125	Mobile Systems Application	45	30	00	60	4
BSCE 4126	Digital Control Systems	40	24	16	60	4
BSCE 4127	Embedded Systems and IoT	50	20	00	60	4
BSCE 4228	Systems Engineering Ethics	45	00	00	45	3
BSCM 1202	Discrete Mathematics	30	0	30	45	3

### Cognate

Code	Title	LH	TH	PH	CH	CU
BSCT 1112	Programming Concepts Using C	30	0	30	45	3
BSCT 1213	Software Engineering	30	30	0	45	3
BSCT 1242	Python Programming	30	0	30	45	3
BSCT 2116	OOP Using Java	30	0	30	45	3
BSCT 2219	User Interface Design	30	30	0	45	3
BSCT 3122	Software Architecture & Design	30	30	0	45	3
BSCT 3123	Artificial Intelligence Concepts	30	30	0	45	3
BSCE 1112	Calculus	35	00	20	45	3
BNCT 2113	Computer Architecture & Org.	30	30	0	45	3
BNCT 4232	PC Hardware Repair & Maintenance	30	0	45	45	3
BNCT 1222	Network Engineering & Management	30	30	0	45	3
BBCT 1111	Funds of Relational Database Systems	30	0	30	45	3
BBCT 1112	Fundamentals of Web Development	30	0	30	45	3
BBCT 2115	Relational Database Systems II	30	0	30	45	3
BBCT 2114	System Analysis & Design	30	30	0	45	3
BBCT 3221	Business Intelligence System	30	0	30	45	3
BENT 2101	Basic Entrepreneurship	45	00	00	45	3

BNCT	2214	Computer networks & Data Commu.	30	30	0	45	3
BNCT	2217	Network and Information Security	30	30	0	45	3
BNCT	3242	Operating Systems	30	30	0	45	3
BNCT	4212	Parallel and Distributed Systems	30	30	0	45	3
BSCT	2117	Data structures and Algorithms	30	30	0	45	3
BSCT	2218	Linux Basics	30	0	30	45	3
BSCT	2220	Android Programming	30	0	30	45	3
BSCT	3124	Application Dev't Frameworks	30	0	30	45	3

**Research**

Code	Title	LH	TH	PH	CH	CU
BRMC 3101	Research Methods in Computing	30	0	30	45	3

**General Education Course**

Code	Title	LH	TH	PH	CH	CU
GECL 1101	Introduction to Writing Skills	30	30	00	45	3
GECR 1101	Christian Beliefs	30	30	0	45	3
GECV 1201	Motor Vehicle Driving	15	0	45	30	2
GECH 1101	Health Principles	30	30	0	45	3
GECC 1101	Funds of Comp. & Office Application	45	0	30	60	4
GECS 1202	Statistics	30	30	0	45	3
GECA 1202	Principles of Sociology	30	30	0	45	3

**Projects**

Code	Title	LH	TH	PH	CH	CU
BPCT 3101	IT Project Management	37	00	16	45	3
BPCT 3202	Systems Project	30	30	0	45	3

**Industrial Attachment**

Code	Title	LH	TH	PH	CH	CU
BSCI 2301	Industrial Training I	00	120	00	60	4
BSCI 4302	Industrial Training II	00	120	00	60	4

**Workshop**

Code	Title	LH	TH	PH	CH	CU
BSCR 1101	Workshop Skills Development I	10	100	00	60	4
BSCR 1102	Workshop Skills Development II	10	100	00	60	4

**Semester Course Schedule**

First Year Code	Semester I Title	LH	TH	PH	CH	CU
BBCT 1112	Fundamentals of Web Development	30	0	30	45	3
BSCE 1111	Fundamentals of Electronics	35	20	00	45	3
BSCE 1112	Calculus	35	00	20	45	3
GECC 1101	Funds of Comp. & Office Application	45	0	30	60	4
GECR 1101	Christian Beliefs	30	30	0	45	3
GECH 1101	Health Principles	30	30	0	45	3
GECL 1101	Introduction to Writing Skills	30	30	00	45	3

First Year Code	Semester II Title	LH	TH	PH	CH	CU
BNCT 1212	Network Engineering & Mgt	30	30	0	45	3
BSCE 1213	Electronic Hardware Devices	25	40	00	45	3



BSCE	1214	Circuit Theory and analysis	30	30	00	45	3
BSCE	1215	Engineering Architecture & Drawing	30	60	00	60	4
BSCM	1202	Discrete Mathematics	30	0	30	45	3
BSCT	1213	Software Engineering	30	30	0	45	3
BSCT	1215	Python Programming	30	0	30	45	3
GECA	1202	Principles of Sociology	30	30	0	45	3
							<b>25</b>
<b>Summer</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSCR	1101	Workshop Skills Development I	10	100	00	60	4
<b>Second Year Semester I</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BBCT	1111	Funds of Relational Database Sys.	30	0	30	45	3
BSCE	2116	Principles of Electronic Circuits	30	30	00	45	3
BSCE	2117	Microprocessors & Microcontrollers	30	30	00	45	3
BSCT	1112	Programming Concepts Using C	30	0	30	45	3
BSCT	2117	Data structures and Algorithms	30	30	0	45	3
BNCT	2113	Computer Architecture & Org.	30	30	0	45	3
BBCT	2114	System Analysis & Design	30	30	0	45	3
							<b>21</b>
<b>Second Year Semester II</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BNCT	2214	Computer networks & Data Communication	30	30	0	45	3
BSCE	2218	Digital and Analog Electronics	45	30	00	60	4
BSCE	2219	Continuous Linear Systems	33	00	24	45	3
BSCT	2219	User Interface Design	30	30	0	45	3
BSCT	2220	Android Programming	30	0	30	45	3
GECS	1202	Statistics	30	30	0	45	3
GECV	1201	Motor Vehicle Driving	15	0	45	30	2
							<b>21</b>
<b>Summer I</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSCI	2301	Industrial Training 1	00	120	00	60	4
<b>Third Year Semester I</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSCT	2116	OOP Using Java	30	0	30	45	3
BSCE	3120	Discrete Linear Systems	33	00	24	45	3
BSCE	3121	Communications Sys. Engineering	48	16	08	60	4
BSCT	3122	Software Architecture & Design	30	30	0	45	3
BSCT	3123	Artificial Intelligence Concepts	30	30	0	45	3
BRMC	3118	Research Methods in Computing	30	0	30	45	3
BSCT	3124	Application Dev't Frameworks	30	0	30	45	3
							<b>22</b>
<b>Third Year Semester II</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSCE	3222	Signal processing	30	30	00	45	3
BSCE	3223	Instrumentation and Measurements	35	20	00	45	3

BSCE	3224	Digital Systems Design	30	30	00	45	3
BNCT	3222	Operating Systems	30	30	0	45	3
BBCT	3221	Business Intelligence System	30	0	30	45	3
BNCT	2217	Network and Information Security	30	30	0	45	3
							<b>18</b>
<b>Summer</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSCR	1102	Workshop Skills Development II	10	100	00	60	4
<b>Fourth Year</b>							
		<b>Semester I</b>					
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSCE	4125	Mobile Systems Application	45	30	00	60	4
BSCE	4126	Digital Control Systems	40	24	16	60	4
BSCE	4127	Embedded Systems and IoT	50	20	00	60	4
BPCT	3101	IT Project Management	37	00	16	45	3
BENT	2101	Entrepreneurship	45	00	00	45	3
BBCT	2111	Relational Database Systems II	30	0	30	45	3
							<b>21</b>
		<b>Semester II</b>					
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BNCT	4232	PC Hardware Repair & Maintenance	30	0	45	45	3
BSCE	4228	Systems Engineering Ethics	45	00	00	45	3
BPCT	3102	System Project	00	120	00	60	4
BNCT	3219	Parallel and Distributed Systems	30	30	0	45	3
BSCT	2218	Linux Basics	30	0	30	45	3
							<b>16</b>
<b>Summer II</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSCI	4302	Industrial Training II	00	120	00	60	4

## DIPLOMA IN COMPUTER FORENSICS

### Diploma Requirements Summary

General Courses Requirements	13
Major Concentration	33
Cognate Requirements	30
Project	03
Research	03
Industrial Attachment	06
<b>Total</b>	<b>88</b>

### Major

Code	Title	LH	TH	PH	CH	CU
DFCT 1101	Security Risk Assessment	30	0	30	45	3
DFCT 1102	Principles of Computer Forensics	30	30	0	45	3
DFCT 1103	Cyber Security Concepts	30	30	0	45	3
DFCT 1104	Fundamentals of IoT	30	30	0	45	3
DFCT 1205	Mobile Forensics Fundamentals	30	30	0	45	3
DFCT 2106	Concepts of System Security	30	0	30	45	3
DFCT 2107	Principles of Digital Crime Investigation	30	0	30	45	3
DFCT 2208	Computer Privacy Law	30	0	30	45	3
DFCT 2209	Penetration Testing & Ethical Hacking	30	0	45	45	3
DFCT 2210	Linux Basics	30	0	45	45	3
DFCT 2204	Forensics Data Acquisition	30	30	0	45	3

### Cognate

Code	Title	LH	TH	PH	CH	CU
BACM 1201	Business Communication	30	0	45	45	3
DBCT 2102	Fundamentals Relational Database Sys.	30	30	0	45	3
DBCT 2104	System Analyses & Design	30	0	30	45	3
DBCT 2106	Fundamentals of Web Development	30	0	30	45	3
DMCT 1205	Discrete Mathematics	30	0	30	45	3
DNCT 1202	Windows OS Concepts	30	0	30	45	3
DNCT 1204	Network Principles	30	30	0	45	3
DNCT 2203	PC Hardware Repair & Maintenance	30	0	30	45	3
DSCT 2101	Programming Concepts using C	30	0	30	45	3
DSCT 2202	Programming Using VB.Net	30	0	30	45	3

### General Education Courses

Code	Title	LH	TH	PH	CH	CU
GE CR 1101	Christian Beliefs	30	30	0	45	3
GE CH 1101	Health Principles	30	30	0	45	3
GE CL 1101	Introduction to Writing Skills	30	30	0	45	3
GE CC 1101	Funds of Computers & Office Appl.	45	0	30	60	4

### Research

Code	Title	LH	TH	PH	CH	CU
DRMC 2101	Research Methods in Computing	30	0	30	45	3

### Project

Code	Title	LH	TH	PH	CH	CU
DPCT 2201	Systems Project	30	0	30	45	3

**Industrial Attachment**

Code	Title	LH	TH	PH	CH	CU
DSCI 3301	Industrial Training 1	0	0	270	90	6

**First Year****Semester 1**

Code	Title	LH	TH	PH	CH	CU
GECC 1101	Funds of Comp. & Office Application	45	0	30	60	4
DFCT 1101	Security Risk Assessment	30	0	30	45	3
GECR 1101	Christian Beliefs	30	30	0	45	3
GECL 1101	Introduction to Writing Skills	30	30	0	45	3
DFCT 1102	Principles of Computer Forensics	30	30	0	45	3
DFCT 1103	Cyber Security Concepts	30	30	0	45	3
DFCT 1104	Fundamentals of IoT	30	30	0	45	3
GECH 1101	Health Principles	30	30	0	45	3
						<b>25</b>

**First Year****Semester 2**

Code	Title	LH	TH	PH	CH	CU
DNCT 1202	Windows Operating System Concepts	30	0	30	45	3
DNCT 1204	Network Principles	30	30	0	45	3
DMCT 1205	Discrete Mathematics	30	0	30	45	3
BACM 1201	Business Communication	30	0	45	45	3
DFCT 1205	Mobile Forensics Fundamentals	30	30	0	45	3
						<b>15</b>

**Second Year****Semester 1**

Code	Title	LH	TH	PH	CH	CU
DSCT 2101	Programming Using C	30	0	30	45	3
DBCT 2102	Fundamentals Relational Database Systems	30	30	0	45	3
DBCT 2104	System Analyses & Design	30	0	30	45	3
DBCT 2105	Fundamentals of Web Development	30	0	30	45	3
DFCT 2106	Concepts of System Security	30	0	30	45	3
DFCT 2107	Principles of Digital Crime Investigation	30	0	30	45	3
DRMC 2101	Research Methods in Computing	30	0	30	45	3
						<b>21</b>

**Second Year****Semester 2**

Code	Title	LH	TH	PH	CH	CU
DPCT 2201	Systems Project	30	0	30	45	3
DSCT 2202	Programming Using VB.Net	30	0	30	45	3
DNCT 2203	PC Hardware Repair & Maintenance	30	0	30	45	3
DFCT 2204	Forensics Data Acquisition	30	30	0	45	3
DFCT 2209	Penetration Testing & Ethical Hacking	30	0	45	45	3
DFCT 2208	Computer Privacy Law	30	0	30	45	3
DFCT 2210	Linux Basics	30	0	30	45	3
						<b>21</b>

**Summer**

Code	Title	LH	TH	PH	CH	CU
DSCI 3301	Industrial Training 1	0	0	270	90	6

## DEPARTMENT OF INFORMATION SYSTEMS

**Vision:** To train learners who are able to use information systems and technology for strategic business management

### BACHELOR OF BUSINESS COMPUTING

#### Degree Requirement Summary

General Courses Requirements	21
Major Concentration	48
Cognate Requirements	47
Research Project	06
Industrial Attachment	06
<b>Total</b>	<b>129</b>

#### Major Concentration

Code	Title	LH	TH	PH	CH	CU
BBCT 1111	Funds of Relational Database Systems	30	30	0	45	3
BBCT 1112	Fundamentals of Web Development	30	0	30	45	3
BBCT 1213	Information Systems	30	30	0	45	3
BBCT 1216	Multimedia Systems	30	0	30	45	3
BBCT 2114	System Analyses & Design	30	0	30	45	3
BBCT 2115	Relational Databases Systems II	30	0	30	45	3
BBCT 2213	Internet & Web Programming	30	0	30	45	3
BBCT 3117	E-commerce and E-Business	30	0	30	45	3
BBCT 3118	Simulation & Modeling	30	30	0	45	3
BBCT 3220	Numerical Computing	30	0	30	45	3
BSCT 1112	Programming Concepts Using C	30	0	30	45	3
BSCT 1213	Software Engineering	30	30	0	45	3
BSCT 1214	Programming Using VB.Net	30	0	30	45	3
BSCT 1215	Python Programming	30	30	0	45	3
BSCT 2116	OOP Using Java	30	0	30	45	3
BSCT 3124	Application Dev't Frameworks	30	0	30	45	3

#### Cognate

Code	Title	LH	TH	PH	CH	CU
BACC 1101	Fundamentals of Accounting I	45	30	0	60	4
BACC 1202	Fundamentals of Accounting II	45	30	0	60	4
BACC 3222	Accounting Packages	30	0	30	45	3
BBSA 2102	Business Law I	30	30	0	45	3
BBSA 3204	Business Ethics	30	30	0	45	3
BECO 1101	Microeconomics I	30	30	0	45	3
BECO 1202	Macroeconomics I	30	30	0	45	3
BENT 2101	Basic Entrepreneurship	30	30	0	45	3
BSCM 1201	Computer Science Mathematics I	30	30	0	45	3
BSCM 1203	Computer Science Mathematics II	30	30	0	45	3
BNCT 2214	Computer Network and Data Communication	30	0	30	45	3
BNCT 2217	Network and Information Security	30	30	0	45	3
BSCT 2218	Linux Basics	30	0	30	45	3
BSCT 2220	Android Programming	30	0	30	45	3
BSCT 3121	Open Source Software	30	0	30	45	3

**Research**

Code	Title	LH	TH	PH	CH	CU
BRMC 3101	Research Methods in Computing	30	0	30	45	3

**General Education Courses**

Code	Title	LH	TH	PH	CH	CU
GECC 1101	Funds of Comp. & Office Application	45	0	30	60	4
GECL 1101	Introduction to Writing Skills	30	0	30	45	3
GECH 1101	Health Principles	30	0	30	45	3
GECA 1202	Principles of Sociology	30	0	30	45	3
GECR 1101	Christian Beliefs	30	30	0	45	3
GECV 1201	Motor Vehicle Driving	15	0	45	30	2
GECS 1202	Statistics	30	30	0	45	3

**Industrial Attachment**

Code	Title	LH	TH	PH	CH	CU
BSCI 3301	Industrial Attachment	0	0	270	90	6

**Project**

Code	Title	LH	TH	PH	CH	CU
BPCT 3101	IT Project Management	30	0	30	45	3
BPCT 3202	Systems Project	30	0	30	45	3

**Semester Course Schedule**

First Year		Semester 1				
Code	Title	LH	TH	PH	CH	CU
GECC 1101	Funds of Comp & Office Application	45	0	30	60	4
BBCT 1111	Funds of Relational Database Sys.	30	30	0	45	3
BSCT 1112	Programming Concepts Using C	30	0	30	45	3
BACC 1101	Fundamentals of Accounting I	45	30	0	60	4
BBCT 1112	Fundamentals of Web Development	30	0	30	45	3
GECL 1101	Introduction to Writing Skills	30	0	30	45	3
GECH 1101	Health Principles	30	0	30	45	3
<b>Total</b>						<b>23</b>

**First Year:****Semester 2**

Code	Title	LH	TH	PH	CH	CU
BSCM 1201	Computer Science Mathematics I	30	30	0	45	3
BSCT 1214	Programming Using VB.Net	30	0	30	45	3
BSCT 1213	Software Engineering	30	30	0	45	3
BBCT 1213	Information Systems	30	30	0	45	3
BACC 1202	Fundamentals of Accounting II	45	30	0	60	4
BECO 1202	Macroeconomics I	30	30	0	45	3
BSCT 1215	Python Programming	30	30	0	45	3
<b>Total</b>						<b>22</b>

**Second Year:****Semester 1**

Code	Title	LH	TH	PH	CH	CU
BSCT 2116	OOP Using Java	30	0	30	45	3
BSCM 1203	Computer Science Mathematics II	30	30	0	45	3
BBCT 2114	System Analyses & Design	30	0	30	45	3
BBCT 2115	Relational Databases Systems II	30	0	30	45	3

BECO	1101	Microeconomics I	30	30	0	45	3
GECR	1101	Christian Beliefs	30	30	0	45	3
GECV	1201	Motor Vehicle Driving	30	0	45	45	3
<b>Total</b>							<b>21</b>

<b>Second Year</b>		<b>Semester 2</b>					
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BBCT	2213	Internet & Web Programming	30	0	30	45	3
BBCT	1216	Multimedia Systems	30	0	30	45	3
BNCT	2214	Computer Network and Data Communication	30	0	30	45	3
BBSA	2102	Business Law I	30	30	0	45	3
BSCT	2220	Android Programming	30	0	30	45	3
GECS	1202	Statistics	30	30	0	45	3
<b>Total</b>							<b>18</b>

<b>Summer</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSCI	3301	Industrial Attachment	0	0	270	90	6

<b>Third Year</b>		<b>Semester 1</b>					
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BBCT	3117	E-commerce and E-Business	30	0	30	45	3
BPCT	3101	IT Project Management	30	0	30	45	3
BBCT	3118	Simulation & Modeling	30	30	0	45	3
BSCT	3221	Open Source Software	30	0	30	45	3
BRMC	3101	Research Methods in Computing	30	0	30	45	3
BENT	2101	Basic Entrepreneurship	30	30	0	45	3
BSCT	3124	Application Dev't Frameworks	30	0	30	45	3
<b>Total</b>							<b>21</b>

<b>Third Year</b>		<b>Semester 2</b>					
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSCT	2218	Linux Basics	30	0	30	45	3
BNCT	2217	Network and Information Security	30	30	0	45	3
BPCT	3202	Systems Project	30	0	30	45	3
BBCT	3220	Numerical Computing	30	0	30	45	3
BACC	3222	Accounting Packages	30	0	30	45	3
GECA	1202	Principles of Sociology	30	0	30	45	3
BBSA	3204	Business Ethics	30	30	0	45	3
<b>Total</b>							<b>21</b>

## BACHELOR OF LIBRARY AND INFORMATION SCIENCE

### Degree Requirement Summary

General Courses Requirements	18
Major Concentration	54
Cognate Requirements	42
Research Project	06
Industrial Attachment	06
<b>Total Graduation Hours</b>	<b>126</b>

### Major Courses

Code	Title	LH	TH	PH	CH	CU
BLIS 1111	Information Literacy	45	0	00	45	3
BLIS 1112	Information Resource Management	45	0	00	45	3
BLIS 1213	Knowledge Classification I	30	0	30	45	3
BLIS 1214	Principles of Cataloguing I	30	0	30	45	3
BLIS 1215	Knowledge Conservation & Preservation	30	0	30	45	3
BLIS 1216	Library Operations	30	0	30	45	3
BLIS 2117	Automation of Library Info. Sys.	30	0	30	45	3
BLIS 2118	Library Documentation Services	30	0	30	45	3
BLIS 2119	Information Storage and Retrieval	30	0	30	45	3
BLIS 2120	Knowledge Classification II	15	0	60	45	3
BLIS 2121	Principles of Cataloguing II	15	0	60	45	3
BLIS 2222	Marketing of Information Services	45	0	00	45	3
BLIS 2223	Principles of Records Management	45	0	00	45	3
BLIS 2224	Reference Sources and Services	30	0	30	45	3
BLIS 3125	Archives Management	35	0	20	45	3
BLIS 3126	Electronic Records and Archives Mgt	30	0	30	45	3
BLIS 3127	Desk Top Publishing	15	0	60	45	3
BLIS 3228	Legislation and Standards	30	0	45	60	4
BLIS 3229	Publishing and Book Trade	30	0	30	45	3

### Cognate Courses

Code	Title	LH	TH	PH	CH	CU
BBCT 1111	Funds of Relational Database Sys.	30	30	0	45	3
BBCT 1112	Fundamentals of Web Development	30	0	30	45	3
BBCT 1215	Information Systems	30	30	0	45	3
BBCT 1216	Multimedia Systems	30	0	30	45	3
BBCT 2115	Relational Databases Systems II	30	0	30	45	3
BBCT 2114	System Analyses & Design	30	0	30	45	3
BBCT 2213	Internet & Web Programming	30	0	30	45	3
BBCT 3117	E-Commerce and E-Business	30	0	30	45	3
BENT 2101	Basic Entrepreneurship	30	30	0	45	3
BNCT 2214	Computer Network and Data Communication	30	0	30	45	3
BNCT 2217	Network and Information Security	30	30	0	45	3
BSCT 1112	Programming Concepts Using C	30	0	30	45	3
BSCT 1214	Programming Using VB.Net	30	0	30	45	3

### General Course

Code	Title	LH	TH	PH	CH	CU
GECL 1101	Introduction to Writing Skills	30	0	30	45	3



GECH	1101	Health Principles	30	0	30	45	3
GECA	1202	Principles of Sociology	30	0	30	45	3
GECR	1101	Christian Beliefs	30	30	0	45	3
GECS	1202	Statistics	30	30	0	45	3
GECV	1201	Motor Vehicle Driving	15	0	45	30	2

### Research

Code		Title	LH	TH	PH	CH	CU
BRMC	3101	Research Methods in Computing	30	0	30	45	3

### Project

Code		Title	LH	TH	PH	CH	CU
BPCT	3101	IT Project Management	30	0	30	45	3
BPCT	3202	Systems Project	30	0	30	45	3

### Industrial Attachment

Code		Title	LH	TH	PH	CH	CU
BSCI	3301	Industrial Attachment	0	0	270	90	6

### Semester Schedule

First Year		Semester 1	LH	TH	PH	CH	CU
Code		Title					
GECC	1101	Funds of Comp. & Office Application	45	0	30	60	4
BLIS	1111	Information Literacy	45	0	00	45	3
BLIS	1112	Information Resource Management	45	0	00	45	3
BBCT	1111	Funds of Relational Database Sys.	30	30	0	45	3
BSCT	1112	Programming Concepts Using C	30	0	30	45	3
BBCT	1112	Fundamentals of Web Development	30	0	30	45	3
GECL	1101	Introduction to Writing Skills	30	0	30	45	3
GECH	1101	Health Principles	30	0	30	45	3
<b>Total</b>							<b>25</b>

### First Year

Semester 2		LH	TH	PH	CH	CU	
Code	Title						
BLIS	1213	Knowledge Classification I	30	0	30	45	3
BLIS	1214	Principles of Cataloguing I	30	0	30	45	3
BLIS	1215	Knowledge Conservation & Preservation	30	0	30	45	3
BLIS	1216	Library Operations	30	0	30	45	3
BBCT	1215	Information Systems	30	30	0	45	3
BSCT	1214	Programming Using VB.Net	30	0	30	45	3
GECA	1202	Principles of Sociology	30	0	30	45	3
<b>Total</b>							<b>21</b>

### Second Year

Semester 1		LH	TH	PH	CH	CU	
Code	Title						
BLIS	2117	Automation of Library Info. Sys.	30	0	30	45	3
BLIS	2118	Library Documentation Services	30	0	30	45	3
BLIS	2119	Information Storage and Retrieval	30	0	30	45	3
BLIS	2120	Knowledge Classification II	15	0	60	45	3
BLIS	2121	Principles of Cataloguing II	15	0	60	45	3
BBCT	2114	System Analyses & Design	30	0	30	45	3
GECR	1101	Christian Beliefs	30	30	0	45	3
<b>Total</b>							<b>21</b>

<b>Second Year</b>		<b>Semester 2</b>					
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BBCT	1216	Multimedia Systems	30	0	30	45	3
BLIS	2222	Marketing of Information Services	45	0	00	45	3
BLIS	2223	Principles of Records Management	45	0	00	45	3
BLIS	2224	Reference Sources and Services	30	0	30	45	3
BBCT	2213	Internet & Web Programming	30	0	30	45	3
BNCT	2214	Computer Network and Data Communication	30	0	30	45	3
<b>Total</b>							<b>18</b>

<b>Summer</b>							
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSCI	3301	Industrial Attachment	0	0	270	90	6

<b>Third Year</b>		<b>Semester 1</b>					
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BRMC	3101	Research Methods in Computing	30	0	30	45	3
BLIS	3125	Archives Management	35	20	0	45	3
BLIS	3126	Electronic Records and Archives Mgt	30	30	0	45	3
BLIS	3127	Desk Top Publishing	15	60	0	45	3
BPCT	3101	IT Project Management	30	0	30	45	3
BBCT	3117	E-Commerce and E-Business	30	0	30	45	3
GECV	1201	Motor Vehicle Driving	15	0	45	30	2
<b>Total</b>							<b>20</b>

<b>Third Year</b>		<b>Semester 2</b>					
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BPCT	3202	Systems Project	30	0	30	45	3
BLIS	3228	Legislation and Standards	30	45	00	45	3
BENT	2101	Basic Entrepreneurship	30	30	0	45	3
BNCT	2217	Network and Information Security	30	30	0	45	3
GECS	1202	Statistics	30	30	0	45	3
BLIS	3229	Publishing and Book Trade	30	30	00	45	3
<b>Total</b>							<b>18</b>

## DIPLOMA IN INFORMATION TECHNOLOGY

### Diploma Requirements Summary

Major Concentration	39
Cognate Requirements	25
General Courses Requirements	13
Information Technology Project	03
Industrial Attachment	06
<b>Total</b>	<b>86</b>

### Major Courses

Code	Title	LH	TH	PH	CH	CU
DBCT 1102	Funds of Multimedia & Graphics Design	30	0	30	45	3
DBCT 2102	Fundamentals Relational Database Systems	30	30	0	45	3
DBCT 2104	System Analyses & Design	30	0	30	45	3
DBCT 2106	Fundamentals of Web Development	30	0	30	45	3
DNCT 1103	Computer Architecture & Organization	30	0	0	45	3
DNCT 1202	Windows OS Concepts	30	0	30	45	3
DNCT 1204	Network Principles	30	30	0	45	3
DNCT 2103	Computer Architecture & Org.	30	0	0	45	3
DNCT 2105	Internet Working & Cabling Practice	30	30	0	45	3
DNCT 2203	PC Hardware Repair & Maintenance	30	0	30	45	3
DPCT 2201	Systems Project	30	0	30	45	3
DSCT 2101	Programming Concepts using C	30	0	30	45	3
DSCT 2202	Programming Using VB.Net	30	0	30	45	3
						<b>39</b>

### Cognate Course

Code	Title	LH	TH	PH	CH	CU
GECC 1101	Funds of Computers and Office Application	45	0	30	60	4
DMAT 1101	Basic Mathematics	30	30	0	45	3
DMCT 1202	Discrete Mathematics	30	0	30	45	3
DMCT 2204	Computer Science Mathematics I	30	30	0	45	3
BACM 1201	Business Communication skills	30	0	45	45	3
DLIS 1203	Knowledge Classification I	30	0	30	45	3
DLIS 1204	Principles of Cataloguing I	30	0	30	45	3
DBCT 1205	Information Systems	30	30	0	45	3
						<b>25</b>

### Research

Code	Title	LH	TH	PH	CH	CU
DRMC 2101	Research Methods in Computing	30	0	30	45	3

### General Courses

Code	Title	LH	TH	PH	CH	CU
GECR 1101	Christian Beliefs	30	30	0	45	3
GECH 1101	Health Principles	30	30	0	45	3
GECC 1101	Funds of Computer & Office Applications	45	0	45	60	4
GECL 1101	Introduction to Writing Skills	30	30	0	45	3

<b>Summer</b>						
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
DSCI	1301	Industrial Attachment	0	0	270	90 6
<b>Total Graduation Credit Hours</b>						<b>06</b>

<b>First Year</b>		<b>Semester 1</b>				
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
GECC	1101	Funds of Comp. & Office Application	45	0	30	60 4
DMAT	1101	Basic Mathematics	30	30	0	45 3
DBCT	1102	Funds of Multimedia & Graphics Design	30	0	30	45 3
GEGR	1101	Christian Beliefs	30	30	0	45 3
GECL	1101	Introduction to Writing Skills	30	30	0	45 3
BENT	2101	Basic Entrepreneurship	30	30	0	45 3
GECH	1101	Health Principles	30	30	0	45 3
<b>Total</b>						<b>22</b>

<b>First Year</b>		<b>Semester 2</b>				
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
DNCT	1202	Windows OS Concepts	30	0	30	45 3
DNCT	1204	Network Principles	30	30	0	45 3
DMCT	1205	Discrete Mathematics	30	0	30	45 3
GECS	1202	Statistics	30	30	0	45 3
GECA	1202	Principles of Sociology	30	30	0	45 3
GECV	1201	Motor Vehicle Driving	15	15	0	30 3
BACM	1201	Business Communication skills	30	0	45	45 3
<b>Total</b>						<b>18</b>

<b>Second Year</b>		<b>Semester 1</b>				
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
DRMC	2101	Research Methods in Computing	30	0	30	45 3
DBCT	2102	Fundamentals Relational Database Systems	30	30	0	45 3
DBCT	2104	System Analyses & Design	30	0	30	45 3
DBCT	2106	Fundamentals of Web Development	30	0	30	45 3
DNCT	2103	Computer Architecture & Org.	30	0	0	45 3
DNCT	2105	Internet Working & Cabling Practice	30	30	0	45 3
DSCT	2101	Programming Concepts using C	30	0	30	45 3
BACM	1201	Business Communication Skills	30	0	45	45 3
<b>Total</b>						<b>21</b>

<b>Second Year</b>		<b>Semester 2</b>				
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
DLIS	2202	Records Organization & Retrieval	30	0	30	45 3
DMCT	2204	Computer Science Mathematics I	30	30	0	45 3
DNCT	2203	PC Hardware Repair & Maintenance	30	0	30	45 3
DPCT	2201	Systems Project	30	0	30	45 3
DSCT	2202	Programming Using VB.Net	30	0	30	45 3
<b>Total</b>						<b>15</b>

<b>Summer</b>						
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
DSCI	1301	Industrial Attachment	0	0	270	90 6

## CERTIFICATE IN INFORMATION TECHNOLOGY

### Programme Requirements

Major Concentration	31
Cognates	23
General Education	13
Industrial Attachment	06
Research	03
<b>Total Credit Hours</b>	<b>68</b>

### Major Concentration

Code	Title	LH	TH	PH	CH	CU
CCIT 1201	Data Automation & Management	30	0	30	60	4
CCIT 1102	Principles of Desktop Publishing	45	45	0	60	4
CCIT 1103	Principle to Web 2.0 Technology	45	45	0	60	3
CCIT 1204	Small Computer Network	30	0	30	60	4
CCIT 1105	Computer Repair & Maintenance	30	0	30	60	4
CCIT 1106	Fundamentals of Multimedia & Graphics Design	30	0	30	45	3
CCIT 2107	Computer Architecture & Org.	30	0	0	45	3
CCIT 2208	Network Principles	30	30	0	45	3
CCIT 2209	Windows OS Concepts	30	0	30	45	3
						<b>31</b>

### Cognate Courses

Code	Title	LH	TH	PH	CH	CU
BBSA 1201	Data Processing Skills	30	0	45	45	3
BENT 2101	Basic Entrepreneurship	30	30	0	45	3
CMAT 1101	Basic Math	30	30	0	45	3
CMCT 1204	Discrete Mathematics	30	0	30	45	3
CMKT 1101	Basic Marketing	30	30	0	45	3
CNCT 1201	Basic Networking	45	0	30	60	4
CNCT 1202	Connecting Gadgets	45	0	30	60	4
						<b>23</b>

### Research

Code	Title	LH	TH	PH	CH	CU
DRMC 2101	Research Methods in Computing	30	0	30	45	3

### General Courses

Code	Title	LH	TH	PH	CH	CU
GECC 1101	Funds of Comp. & Office Application	45	0	30	60	4
GECH 1101	Health Principles	30	30	0	45	3
GECL 1101	Introduction to Writing Skills	30	0	30	45	3
GECR 1101	Christian Beliefs	30	30	0	45	3
<b>Total</b>						<b>13</b>

### Summer

Code	Title	LH	TH	PH	CH	CU
CSCI 3301	Industrial Attachment	0	0	270	90	6

**Semester Schedule**

<b>First Year</b>		<b>Semester 1</b>				
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
CMKT	1101	Basic Marketing	30	30	0	45 3
CCIT	1102	Principles of Desktop Publishing	45	45	0	60 4
CCIT	1103	Principle to Web 2.0 Technology	45	45	0	60 4
GECH	1101	Health Principles	30	30	0	45 3
GECL	1101	Introduction to Writing Skills	30	30	0	45 3
GECR	1101	Christian Beliefs	30	30	0	45 3
<b>Total</b>						<b>20</b>

<b>First Year</b>		<b>Semester 2</b>				
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
CCIT	1204	Small Computer Network	30	0	30	60 4
CCIT	1205	Computer Repair & Maintenance	30	0	30	60 4
GECC	1201	Funds of Comp. & Office Application	45	0	30	60 4
CNCT	1201	Basic Networking	45	0	30	60 4
CNCT	1202	Connecting Gadgets	45	0	30	60 4
<b>Total</b>						<b>20</b>

<b>Second Year</b>		<b>Semester 1</b>				
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
CCIT	2106	Funds of Multimedia & Graphics Design	30	0	30	45 3
CRMC	2101	Research Methods in Computing	30	0	30	45 3
BENT	2101	Basic Entrepreneurship	30	30	0	45 3
CMAT	2101	Basic Mathematics	30	30	0	45 3
CCIT	2107	Computer Architecture & Organization	30	0	30	45 3
BACM	3101	Business Communication Skills	30	0	45	45 3
<b>Total</b>						<b>18</b>

<b>Second Year</b>		<b>Semester 2</b>				
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BBSA	1201	Data Processing Skills	30	0	45	45 3
CCIT	1208	Network Principles	30	30	0	45 3
CCIT	1209	Windows OS Concepts	30	0	30	45 3
CDAM	1203	Data Automation & Management	30	0	30	60 4
CMCT	1202	Discrete Mathematics	30	0	30	45 3
<b>Total</b>						<b>19</b>

<b>Summer</b>						
<b>Code</b>		<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
CSCI	3301	Industrial Attachment	0	0	270	90 6

## COURSE DESCRIPTION

### **BLIS 1111 Information Literacy**

This course is designed to equip learners with information literacy skills to enable them identify information tasks, search for information, retrieve and utilize information.

### **BLIS 1112 Information Institutions and Resources**

The course introduces learners to different information institutions and resources therein. It highlights their role, services and importance in the information society.

### **BLIS 1213 Knowledge Classification I**

This course introduces learners to the principles and theories of library classification. It exposes learners to the various schemes and facets of knowledge classification.

### **BLIS 1214 Principle of Cataloguing I**

This course is designed to introduce learners to theoretical concepts and principles of cataloguing.

### **BLIS 1215 Knowledge Conservation and Preservation**

The course covers techniques of preserving and conserving information materials. It identifies the dangers to information materials and the measures to contain them.

### **BLIS 1216 Library Operations**

This course introduces learners to library operations: collection development and management, circulation and reservations, and serials administration.

### **BLIS 2117 Automation of Library and Information Systems**

The course introduces learners to the automation of library and information systems and services.

### **BLIS 2118 Library Documentation Services**

This course covers indexing, abstracting and information resource sharing.

### **BLIS 2119 Information Storage and Retrieval**

This course introduces learners to the techniques of information storage and retrieval

### **BLIS 2120 Knowledge Classification II**

The course builds on Knowledge Classification I and covers practical aspects of classification of information materials.

### **BLIS 2121 Principles of Cataloguing II**

The course builds on organizing: Knowledge Cataloguing I and enables learners to perfect their skills knowledge cataloguing

### **BLIS 2222 Marketing of Information Services**

The course focuses on promoting the visibility of information institutions, services offered and resources therein.

### **BLIS 2223 Principles of Records Management**

The course introduces learners to the basic concepts, principles and practices of records management.

### **BLIS 2224 Reference Sources and Services**

The course introduces learners to different reference sources of information and how they can be used in information work. It provides students with the techniques of identifying, selecting, evaluating and sourcing information from reference information sources and providing adequately the desired reference services.

### **BLIS 3125 Archives Management**

The course introduces learners to the basic concepts, principles and practices of archives management.

### **BLIS 3126 Electronic Records and Archives Management**

The course introduces learners to the applications of managing electronic records and archives materials.

### **BLIS 3127 Desktop Publishing**

The course introduces learners to desktop publishing applications and techniques of preparing, designing and producing electronic documents.

### **BLIS 3228 Legislation and Standards**

The course introduces learners to legislative requirement, framework and standards for library, records and archives services.

### **BLIS 3229 Publishing and Book Trade**

The course covers book industry, its role in development and knowledge of trading in information products.

### **BPCT 3202 Systems Project**

Prerequisite: Systems Analysis and Design

This course is intended to cover methods and techniques of analyzing existing systems to identify problems affecting system performance, so as to development new systems and or improve on the existing systems. Topics to be included: project analysis, system design, documentation, preparation, implementation and presentation.

### **BBCT 1111 Fundamentals of Relational Database Systems**

*Prerequisite: BGCT 111 Fundamentals of Computer and Office Applications*

This course will introduce students to the concepts of database life cycle management. Areas to be covered include: fundamentals of database systems, business description analysis, database designing (E-R modeling), Normalization to 1NF, and implementing a data model on Microsoft Access DBMS. Application of Microsoft Access objects including; Tables, Forms, Queries, Reports and Macros will be covered to populate, retrieve, update, generate reports, and automate database systems. Database threats, security and responsibilities involved in Database development, DBA and DA will be discussed. Database types (standalone, client-server, Distributed), and trends of databases (web based and mobile) will be mentioned.

### **BBCT 2115 Relational Database Systems II**

Prerequisite: Fundamentals of Relational Database Systems

This course provides an in depth study of database design and development. Basics of entity super class subclass, inheritance and generalization will be covered. Design a business database system using an open source Database designer tool. Database development and data manipulation will be implemented using SQL commands, Data integrity, Views, triggers, database administration (security, performance, backup) and development of graphical user interface to be covered. Learners will be introduced to Installation and configuration of Database Management System.



### **BBCT 2114 System Analysis and Design**

*Prerequisite: BGCT 111 Fundamentals of Computer and Office Applications*

This course unit will provide students with an introduction to systems analysis and design and give them an overview of the main techniques commonly used for carrying out the analysis and specification of the design for a computer system. Topics to be covered will include: systems analysis concepts, life cycle of system development, requirements analysis, conceptual design using DFDs and Conceptual, system tools, implementation, testing and quality assurance, real life projects and their implementation.

### **BBCT 1112 Fundamentals of Web Development**

*Prerequisite: BGCT 111 Fundamentals of Computers & Office Applications*

This unit will focus on introducing the fundamentals of Web designing and development using HTML with a simple text editor. Areas to be emphasized will include: detailed coverage of HTML, XHTML tags and CSS. Introduction to various web browsers and their effect on content presentation will also be covered.

### **BRMC 3101 Research Methods in Computing**

This course introduces students to the systematic investigation that attempts to establish facts on a scientific basis. The investigation involves discovery, interpretation, development, and execution of methods that are generic in nature, yet highly applicable to research in computing and information systems. Topics covered include review of a published article, literature review, identifying a research problem, sampling, measurement, reliability, validity, data collection, statistics, mining, simulation, optimization, graphical modeling, research ethics, survey research, correlational research, and experimental research, research methods specific to information sciences, action research, research management, and qualitative research.

### **BNCT 2214 Computer Network and Data Communications**

*Prerequisite: Internetworking and Cabling Practice*

This course will introduce students to computer networks and data communications. Topics will include: Introduction to Data Communications, Data Transmission, Transmission Media, OSI, TCP/IP and Three Layer Model, Signal Encoding and decoding, Digital Data Communication Techniques, Multiplexing, LAN, WAN, MAN and PAN, Internetworking.

### **BNCT 2217 Networks and Information Security**

This course unit will focus on training students in the area of network and information security. Topics will include: Introduction to Information Security and fundamentals principle of security (confidentiality, integrity and availability), OSI reference model functions, protocols related to attacks, threats and control, network security devices like Routers, Firewall, Bridges, repeaters and gateways, Secured Administration Linux/Windows Servers; basics of cryptography like Julius Caesar, Atbash, Vigenere and introduction to cryptographic primitives (block and stream cipher), shared and public keys, one-time pad.

### **BPCT 3101 IT Project Management**

*Prerequisite: Fundamentals of Computing & Office Applications*

This course unit will provide student with both the theoretical and practical overview of processes involved in managing projects. Topics include the practical and business aspects of project planning, scheduling and management, costing and resources, project life cycle, project evaluation, team building and people management, risk management, monitoring and control, work breakdown structures, network diagrams, solving earliest and latest time, critical paths and using project management software.

### **BBCT 2213 Internet and Web Programming**

*Prerequisite:* Fundamentals of Web Development

The unit provides students with knowledge and skills to develop secure dynamic web based applications. PHP script language and MYSQL are used to add interactive features to web pages, including; web based email service, data capture and storage, and data retrieval and presentation on a web page. Introduction to an industrial web development tool, Domain Name registration, hosting requirements, and file transfer to host server are covered.

### **BBCT 1215 Information Systems**

This course focus on how different information systems can be used to support organizations and make them grow, set goals, make decisions and assist managers analyze different trends in the organization. Information Systems also focuses on how organization involves people, business processes, information and technology, managerial aspects in decision-making and human resource management. Information systems use databases to make work easy for organizations. Topics to cover include; introduction to IS.

### **BBCT 1216 Multimedia Systems**

This course will introduce students to the principle and current technologies of multimedia systems and multimedia standards. Further students will be experienced to practical aspects of multimedia systems. Topics to cover will include; Introduction to multimedia systems, Issues in Multimedia Applications Design, Multimedia Data Processing and Representations, Multimedia Compression Standards (Text, Image, Video and Audio), Multimedia Content Representation, Content-based Multimedia Retrieval, Multimedia Network Communications.

### **BBCT 3117 E-commerce and E-Business**

The unit is designed to introduce students to online commercial operations, and internal business processes supported by computer systems. The course covers, business concepts in relation to web technologies; Online: marketing, customer support services, payment systems, order submission, security and ethics. Business electronic backend systems that complement online commerce are discussed. An introduction to nontraditional e-business systems e.g. e-Tax, e-Custom, e-Procurement and e-Others will be covered.

### **BSCE 1111 Fundamentals of Electronics**

The course addresses basic physical concepts of electronic devices, placing emphasis on the physics of semiconductor devices. The course highlights the fundamental building block of all semiconductor devices, i.e., pn-junction and its application in the understanding of diodes and transistors. Finally, the course introduces basic techniques in designing circuits using semiconductor devices.

### **BSCE 1213 Electronic Hardware & Devices**

This course covers the theory and application of various semiconductor devices. These include integrated circuits that are used as building blocks in larger systems.

### **BSCE 1121 Differentiation and Integration**

This course introduces the concepts of differentiation and integration and their applications to solving problems.

### **BSCE 1214 Circuit Theory and Analysis**

The purpose of this course is to provide an elementary introduction to linear circuit theory that is to be used in the analysis of more complex electronic circuits. The course is meant to equip students with the foundational knowledge on the analysis of circuits containing resistors, inductors, capacitors, operational amplifiers and transformers.

### **BSCE 1215 Engineering Architecture & Drawing**

The course introduces and exposes students to engineering drawing. The topics covered include sketching; drawing of lines, curves and loci; orthographic, projection, isometric and oblique techniques; sectional views and aspects of Electrical and Electronic Engineering. The course also introduces students to elements of design, especially in the part played by computer-aided drawing and design.

### **BSCE 2116 Principles of Electronic Circuits**

The course extensively covers the fundamentals of electronic circuits using devices such as operational amplifiers, Diodes, MOSFETS and BJTs. It also covers the different configurations, applications, and techniques used to design and analyze the performance of electronic circuits. The course also introduces software packages used in the design of electronic circuits.

### **BSCE 2117 Microprocessor and Microcontrollers**

Microprocessors are at the heart of all computer systems including personal computers and embedded systems. This course also enables students to work with microprocessor systems on a chip such as microcontrollers and digital signal processors that are typically found in embedded systems. It is therefore of paramount importance for computer engineers to understand microprocessors, as well as be able to work with them practically.

### **BSCE 2218 Digital and Analog Electronics**

This course introduces digital electronics and microelectronics, and exposes further the use of diodes, transistors and other devices in the field of electronics. The course covers digital algebra, logic gates and families, flip-flops, combinational and sequential circuits, A/D and D/A conversions, memory and display device interfacing.

### **BSCE 2219 Continuous Time Linear Systems**

This course makes use of mathematical tools to describe and analyze signals and systems. It lays the foundation for the study of signal processing and control systems among others.

### **BSCE 3120 Discrete Linear Systems**

This course presents the discrete time representation of the concepts studied in continuous time linear systems. It is a prerequisite for the study of digital signal processing and digital control systems.

### **BSCE 3121 Communication Systems Engineering**

In this course, students receive an introduction to the principles of communication systems engineering. Students examine analog and digital communication including linear (AM, DSB, SSB) and exponential (PM, FM) modulation, sampling, noise and filtering effects, quantization effects, detection error probabilities, and coherent and non-coherent communication techniques.

### **BSCE 3222 Signal Processing**

Digital Signal Processing (DSP) is a very important field used in the design of various computer and communications systems such as modems and scanners. It is therefore critical to have a good working understanding of this field.

### **BSCE 3223 Instrumentation & Measurements**

The course enables students to acquire knowledge and skills on electrical instrumentation and measurements.

### **BSCE 3224 Digital Systems Design**

This course is fundamentally important for any computer engineer. Digital systems are found in computers, telecommunications equipment and embedded systems among others. Furthermore, their design and implementation requires the use of VLSI technology for the larger systems.

### **BSCE 4125 Mobile System Applications**

This course introduces hardware and software concepts of mobile computing. It then discusses mobile application development technologies.

### **BSCE 4126 Digital Control Systems**

Control systems examine advanced analysis and design issues in linear feedback control systems. The course also provides an in-depth introduction to the fundamental concepts of linear system theory using both transfer function and state equation system descriptions. Emphasis is placed on the design of feedback controllers and state estimators for pole-placement, robust regulation, and tracking and disturbance rejection, in the context of real world industrial process applications.

### **BSCE 4127 Embedded Systems and IoT**

Embedded systems make use of digital circuits, microprocessors and software as the core components that monitor and control various devices and machines. For this reason, embedded systems are built into devices from almost all fields ranging from medical equipment to military hardware.

### **BSCE 4228 Systems Engineering Ethics**

This course is designed to introduce undergraduate engineering students to the concepts, theory and practice of engineering ethics. It will allow students to explore the relationship between ethics and engineering and apply classical moral theory and decision making to engineering issues encountered in academic and professional careers.

### **BSCI 2301 & 4301 Industrial Training I & II:**

This course will help the student understand the different types of Computer engineering careers and their roles in a real world business organization apply and translate computer engineering knowledge and best practice to real industry based problems. Acquire soft skills to enhance effective participation in group based industry projects. This will also help the student learn and practice good working ethics and communication skills with industry based staff and Supervisors.

### **BSCR 1101 Workshop Skills Development 1:**

This course will prepare the student's skill of how to conduct him/herself in an electronic setting workshop. The course intends to introduce the student to a workshop environment.

### **BSCR 1102 Workshop Skills Development II:**

*Prerequisites:* BSCR 1101 Workshop Skills Development 1.

This course introduces advanced concepts of a workshop environment to the student.

### **DFCT 1101 Security Risk Assessment**

This course discusses the fundamentals of vulnerability & risk assessment to mitigate and manage security risks. Analytical methodologies for information security risk assessment, test and evaluation. Practical experience with case studies and defense-in-depth concepts will be covered.

### **DFCT 1102 Principles of Computer Forensics**

This course introduces learners to the principles of digital forensics, evidence collection, preservation and analysis. Topics include investigation principles, data acquisition, OS and memory recovery/analysis, computer network forensics, mobile forensics, legal consideration, ethics, digital evidence control and documentation.

### **DFCT 1103 Cyber Security Concepts**

The Cyber security course explores the field of cyber security, specifically the importance of cyber security, data confidentiality, best practices for using the internet and social media safely, and potential career opportunities in this growing field.

### **DFCT 1104 Fundamentals of IOT**

The Internet of Things (IoT) is everywhere. It provides advanced data collection, connectivity, and analysis of information collected by computers everywhere—taking the concepts of Machine-to-Machine communication farther than ever before. This course gives a foundation in the Internet of Things, including the components, tools, and analysis by teaching the concepts behind the IoT and a look at real-world solutions.

### **DFCT 1205 Mobile Forensics Fundamentals**

Mobile Forensics course is designed to make students understand how to secure mobile devices and investigate crimes made using the devices. It covers the fundamental knowledge that is required by a computer forensic expert. This course will show you the best practices for collecting and investigating mobile phones as well as the details on how they work. Students will learn about cellular technologies, radio isolation, where the evidence can be located, troubleshooting, data structures.

### **DFCT 2106 Concepts of System Security**

The course will cover the theory and practice of computer communications security, including cryptography, authentication, and secure electronic mail. Topics include secret and public key cryptography; message digests; password-based, address-based, and cryptographic authentication; privacy and authentication in email; emphasis on CIA and its applicability will be discussed.

### **DFCT 2107 Principles of Digital Crime Investigation**

The course content mirrors a typical forensic investigation. It exposes students to wide range of concepts and applied techniques that will involve identifying, securing and conducting the forensic extraction of data from a suspect digital storage device. Post data capture, the application of computer forensic analysis methods and specialist computer forensic software tools will be taught in the pursuit of digital evidence and or intelligence from said device. Area to be covered will include forensic recovery of digital data from a range of digital storage devices, analysis of data to establish fact, uncovering data exchanges between suspects and devices, documentation for the digital and physical investigation, presentation of findings to clients, and acting as an expert witness in a court of law.

### **DFCT 2108 Computer Privacy Law**

Legal rights & liabilities associated with computer security, information privacy; Rights enforceable by private parties; Liabilities associated by private parties and governments; Legal aspects of records management; Un-authorized computer use; Computer Fraud & Abuse Act; Trade Secrets; Economic Espionage Act; Civil Law Claims; Privacy; Export Control; Constitutional Rights; Digital Rights Management.

**DFCT 2209 Penetration Testing and Ethical Hacking**

In this course, students will learn the tools, attacks, techniques, strategies and tactics to jump start their penetration testing career and infiltrate any network or system. This hands-on, how-to course gives students an in-depth overview of penetration testing and how to test for computer/network/web vulnerabilities. From internal to external hacking, students will be able to understand the vulnerabilities that an attacker could exploit. Throughout the course, the students will have the opportunity to work with various tools, attacks, software, and tactics.

**DMCT 2204 Forensics Data Acquisition**

This course will explore the myriad of forensic data acquisition hardware and software. The students will learn the adapters and identification. During the process of forensic data acquisition mistakes are not expected, therefore students will be taken through the best ways of capturing evidence so the best decisions about the data.

**DNCT 2103 Computer Architecture & Organization**

*Prerequisite: BGCT 111 and BNCT 111*

The course unit will cover and introduce students to a number of issues involved in the design and utilization of high performance computing systems. These include: Instruction Set Architecture, Performance Evaluation, Pipeline Microprocessor, Cache and Memory, Multiprocessor and Parallel Computing, including Interconnection Network, and Embedded Systems concepts.

**DNCT 2203 PC Hardware Repair & Maintenance**

*Prerequisite: Computer Architecture & Organization*

This course provides entry level skills to students seeking employment with computer knowledge as a prerequisite. The skills and knowledge covered in this course unit is designed for students who have the passion for computer hardware and have interest in knowing how to use, install, maintain and repair computers. Topics will include: Introduction to PC types, Memory, I/O devices, Video display and audio systems, magnetic storage devices, malicious programs, preventive maintenance, standard repair and troubleshooting procedures, and use of testing equipment's such as multi-meters.

**DBCT 2102 Fundamentals of Relational Databases**

*Prerequisite: BGCT 111 Fundamentals of Computer and Office Applications*

This course will introduce students to the concepts of database life cycle management. Areas to be covered include: fundamentals of database systems, business description analysis, database designing (E-R modeling), Normalization to 1NF, and implementing a data model on Microsoft Access DBMS. Application of Microsoft Access objects including; Tables, Forms, Queries, Reports and Macros will be covered to populate, retrieve, update, generate reports, and automate database systems. Database threats, security and responsibilities involved in Database development, DBA and DA will be discussed. Database types (standalone, client-server, Distributed), and trends of databases (web based and mobile) will be mentioned.

**DBCT 2104 System Analyses and Design**

*Prerequisite: BGCT 111 Fundamentals of Computer and Office Applications*

This course unit will provide students with an introduction to systems analysis and design and give them an overview of the main techniques commonly used for carrying out the analysis and specification of the design for a computer system. Topics to be covered will include: systems analysis concepts, life cycle of system development, requirements analysis, conceptual design using DFDs and Conceptual, system tools, implementation, testing and quality assurance, real life projects and their implementation.



### **DMCT 1205 Discrete Mathematics**

*Prerequisite:* DMCT 051 / BMCT 111

This course unit introduces students to discrete structures in mathematics of computation. Topics will include: Set, relations and functions, Elementary Number Theory and properties of integers, laws of mathematics such as associative law, identity law, De Morgan's law and others, Logic and Propositions, Graph Theory, matrices and their representations, iterative algorithms including combinatory, Combinations and Permutation and Discrete Probability.

### **DPCT 2201 Systems Project**

*Prerequisite:* *Systems Analysis and Design*

This course is intended to cover methods and techniques of analyzing existing systems to identify problems affecting system performance, so as to development new systems and or improve on the existing systems. Topics to be included: project analysis, system design, documentation, preparation, implementation and presentation.

### **DNCT 1202 Windows Operating Systems Concepts**

This course unit introduces students to windows OS concepts. Students will be taken through different OS available with major concentration on windows. File management, process management in OS are introduced to students. Topics to consider include: introduction to processes and process creation, Main memory, monitors, storage allocation, File and disk management and I/O devices.

### **DNCT 1204 Network Principles**

The course unit will introduce students to the principles and terminologies used in computer networks, types of networks, topologies and different protocols and issues involved in networking. Major areas of concentration include: Introduction to networks, topologies, Protocols such as HTTP, FTP and their uses, describe the Internet and an overview on Local area network and Wide area network (Types of Network), differentiate between wireless and wired networks, switch and hub and their functions in the network is discussed.

### **DFCT 2210 Linux Basics**

The course is designed for students who are beginners in Linux systems as users or system administrators. It is designed to give the student an entry understanding from the core fundamentals of Unix/Linux operating system. It covers essential learning skills for Linux. The course provides-hands-on training to effectively use, customizes, and script common command line utilities. In addition, the student will be able to make effective use of a wide range of standard system administration, job control, software tools, system processes, system start-up and shutdown, software package administration, networking, the Network File System, and naming services.

### **BSCT 1111 Software Engineering Ethics**

This course unit introduces students to software development profession ethics. Topics to be covered include: software engineering ethics and definitions, professional practices and standards; process infrastructure, software design and implementation ethics, requirements change procedures and ethics; and software quality concepts including SQA, Validation and Verification methods and measurements; requirements patterns and specifications methods.

### **BSCT 1112 Programming Concepts using C**

*Prerequisite: BGCT 111 Fundamentals of Computers & Office Applications*

This course makes students understand the concept of procedural oriented programming, using C. Topics includes: introduction to procedural C, data types, statements, decision statements, iterations, Flow Charts, functions, formatting of I/O, Working with files, Arrays and Strings, Pointers, structures and unions.

### **BSCT 1213 Software Engineering**

This course unit introduces students to Software Engineering methods and the steps involved in designing software. Topic will include; Software Over and software life cycle, software processes, requirement identification and management, Requirement Engineering process, software validation and verification, software project management techniques, Analysis Modeling, Software Testing Strategies, Software Testing Techniques and documentation.

### **BSCT 1214 Programming Using VB.Net**

*Prerequisites: Fundamentals of computers, Relational database, Programming concepts Using C* The course focuses on developing application programs using visual basic.

Net environment. Topics include: Basic concepts of visual basic.Net, visual basic.Net variables, design of visual basic.Net programs, designing the user interface using forms, visual basic.Net controls, error handling and debugging in visual basic.Net, Object-Oriented programming structures (OOPS): Objects, classes and methods. Create, read & append text files. This course is mainly to SE & AD majors.

### **BSCT 2116 OOP Using Java**

This course of study engages students with little programming experience. Students are introduced to object-oriented concepts, terminology, and syntax, and the steps required to create basic Java programs using hands-on, engaging activities. Students will learn the concepts of Java programming, design object-oriented applications with Java and create Java programs using hands-on, engaging activities. Students will extend their programming experience in Java and develop more complex Java applications.

### **BSCT 2117 Data Structures and Algorithms**

The course unit introduces methods for solving problems under the constraints of the computers resources. It also gives students basic understanding of how common computational problems can be solved efficiently on a computer. Topics under this unit include: basic data structures and abstract data types, arrays, lists and linked lists, stack, queues, search trees, hash tables, Binary trees, sorting and graphs.

### **BSCT 2219 User Interface Design**

*Engineering/Systems Analysis & Design*

This course focuses on giving students knowledge and skills to design and engineer user graphical interfaces. Success of software products in today's competitive industry is intimately tied to the quality of its user interface, and easy adaptation by users. Topic to cover in this course includes, Aspects of interface design, goal directed and scenario directed design, principles of interactive design, analysis and specification of user design, user interface development cycle, prototyping techniques and processes, quality assurance and testing of user interface, evaluation and analysis methods of user interface.

### **BSCT 3122 Software Architecture & Design**

The course unit introduces students to small and large scale software architecture and design, including design, analysis and architectural patterns. Topics to cover will include: introduction to software engineering and software architecture views, software processes and requirements, architectural design patterns (CAF and Nadia), object



oriented design, designing reusable components, distributed software, configuration management architecture, and architectural design for concurrency and UML design.

### **BSCT 3123 Artificial Intelligence Concepts**

*Prerequisite: Programming Concepts in C/Discrete Mathematics*

This course will introduce the basic principles in artificial intelligence research. It will cover simple representation schemes, problem solving paradigms, constraint propagation, and search strategies. Areas of application such as knowledge representation, natural language processing, expert systems, vision and robotics will be explored. The LISP programming language will also be introduced.

### **BNCT 3219 Parallel and Distributed Systems**

This course unit will introduce students to parallel and distributed systems, focusing on both shared memory parallel computers and distributed memory multicomputer or clusters. Students will also be introduced to parallel programming using appropriate program languages [e.g. C++ and Java]. Topics to be covered will include: introduction to parallel and distributed systems, hardware architecture, software architecture, concurrency enterprise systems and synchronization, data and work portioning, common parallel strategies, shared memory and threads, multiprocessors, distributed memory and message passing, system area networks, Network protocol impact, Operating systems issues and virtualization.

### **BNCT 3222 Operating Systems**

*Prerequisite: Fundamentals of Computing & Office Administration*

An operating system manages all peripheral devices, network interfaces, other program resources and users of such. An OS is a complex program system. The study of operating systems has gained importance with the advancements made in computer organization and programming systems. This course is devoted to a structured survey of OS standards and practices. Similarly, certain prominent OS will as well be introduced. Special emphasis will be assigned to Windows and Unix/Linux.

### **BNCT 3220 LINUX Client Server Administrations**

This course will introduce students to a comprehensive hands-on Linux system administration both on stand-alone and networked system environments. Topics to be covered include: Emphasizes LINUX system installation, management and maintenance, users' account control, Linux client server architecture, the use of LDAP, DNS, DHCP, Samba, file system and services, system performances, and security.

### **BSCT 3221 Open Source Software**

The course introduces students to the free open source software. Coverage to include; Definitions, FOSS licenses, FOSS applications in various field e.g. Content management, project management, Database systems, financial, server ware, computer operation systems, publishing, media packages. Team work to customize FOSS applications, and to develop user manuals for local purposes to be encouraged. Identify and develop FOSS business models.

### **BSCM 1201 Computer Science Mathematics II**

*Prerequisite: Pure Mathematics*

This course introduces students to advanced knowledge of mathematics. The unit takes students through the Pythagoras theorem; Euclid's proof, Proof by rearrangement, angles and trigonometric identities and theory; tangents, sine and cosine computations, the dot products and vectors in plane space, scalar and vector computations, solving linear systems and part of matrix and determinant applications is key to the students taking this unit.

### **BNCT 2232 Windows Client Server Administration**

This course will provide an introductory hands-on application, training on a Windows client-server (Windows XP/7-Server 2003/8) operating system for both beginning and intermediate-level students. Topics include: operating system installation and configuration for both client and server, configuring desktop environment, server administration, hardware installation and configuration, file system management, basic Active directory, storage configuration, optimization and management, System security and administration, management of users, computers, groups and shared resources, network configuration and management, troubleshooting, backup and disaster recovery in windows environment.

### **CNCT 1202 Connecting Gadgets**

This course will be taught based on a blended content to introduce students to digital world. The digital world is upon us both personally and professionally. Students will be taught to have a better understanding of the Internet, computers and social media which will be a big help toward acquiring digital skills. With these skills students will more opportunities and possibilities opened for them individually as far as career advancement. Areas to be considered will not be limited to using a computer, connect devices and access search, email, and social media. This course content is very user-friendly and interactive with lots of illustrations. No previous knowledge is needed for this introductory course.

### **CNCT 1201 Basic Networking**

This course introduces students to a blended learning. Networking is the major concepts that gets devices connected. Although often unseen, it enables user to stay connected on any given network as they move around freely using our laptop or smartphone. This course teaches the basic networking concepts and the skills that you can put to use right away. Its underlying principles will help students to set-up a SOHO (small-office/home-office) networks and put students on the path to managing a larger-scale business network.

## School of Computing & Informatics List of Lecturers

**Ag. Dean Lowu Francis**, MSc. (Comp. Sci.) (Makerere), BSc (Physics/Math) (Makerere).

### Full-time Faculty

**Mpanga David**, PhD (in progress) (Kabarak), MSc (Distr. Comp. Syst), PGDE, BSc (Chem) (Makerere).

### Department of systems Engineering

Contract/Adjuncts

**Egesa Samuel**, MSc (Math), PGDCS, BSc (Makerere).

**Golooba Ronald**, MSc (Comp. Sci), BSc (Ed) (Makerere).

**Kinene Philemon**, MSc IT (Software Eng.), BSc (Software Eng.), CCNA (Bugema).

**Kitumba David**, MSc. IT (Network Syst.), BSc, CCNA (Bugema).

**Mugerwa Joseph**, MSc (IT), Bis (IT), CCNA, CCNAS (Bugema).

**Nandere Hudson**, MSc (IT. Software Eng.), BSc (Software Eng.), CCNA (Bugema).

### Department of Information Systems

Contract/Adjuncts

**Albert Walusimbi**, MSc (IT-Info Syst) (Bugema), BSc (IT) (Uganda Martyrs), CCNA.

**Erma Ssewankambo**, MSc IT (Info Syst.) (Bugema), BSc (CS) (Makerere), CCIE.

**Laban Onyango**, MIT (IT) (Sikkim Manipal), BIS (Makerere).

**Muwanga Kosea**, MIT (IT) (Sikkim Manipal), BSc (Info Syst.) (Bugema), CCNA, CCNAS (Makerere).

**Nabukenya Hellen**, MSc (IT. Info Syst.) (Bugema), BIT (IT) (Makerere).

**Nantege Hellen**, MSc (IT. Info. Syst.), BIT (Uganda Christian University).

**Birumi Timothy**, MSc (Info. Syst.), Bis (IT) CCNA, IT Essentials

### Teaching Assistant

**Mghweno L. Ezekiel**, MSc. IT (Info Syst., in progress), BSS (2018) CCNA (Bugema).

**Nakiwoolo Edith**, MSc. IT (Info syst, in progress) (Ndejje), B. Info. Syst. (Bugema).

# **SCHOOL OF EDUCATION (SOED)**

## SCHOOL OF EDUCATION

**Ag. Dean Awoniyi A. Samuel**, PhD (Educational Research, Measurement & Evaluation) MEd (Educational Research, Measurement & Evaluation), PGDE, BSc (Hons) (Ilorin, Nigeria).

### Philosophy

The School of Education believes that a true teacher is one that is mentally, physically and spiritually sound to impart the same virtues in his/her learners making them best suited for service to God and mankind in this world and in the world to come.

### Vision

To equip students with essential skills and competencies in teaching and research that will make them unique educators wherever they will be.

### Objectives

**The School of Education seeks to:**

- Train educators in the light of the Seventh day Adventist philosophy of education, which places emphasis on restoring the image of God in mankind through a harmonious development of the physical, mental, spiritual and social powers.
- Impart in student-teachers' knowledge and skills that will make them effective and efficient teachers in various levels of education.
- Equip students with relevant knowledge and skills to enable them assume leadership roles in the educational systems and other institutions of society.
- Develop educators who will seek to identify themselves with and create a positive impact on the youth who make up a large percentage of our society.
- Prepare candidates for higher education.

### Departments

The School of Education consists of the following departments:

- Department of Arts Education
- Department of Language Education
- Department of Science Education

### Programs Offered by the School of Education

The School of Education offers programs leading to the award of Bachelor of Arts with Education and Bachelor of Science with Education degrees both secondary and primary options. It also offers Diploma in Education (only in Primary option). There is no Diploma in Secondary Education. The primary education courses are found under the Institute of Professional Growth section of this bulletin.

Each student in the School of Education must have two teaching subjects. They should check for appropriate subject combinations under each department. In addition to the teaching subjects, students are expected to do General Education and Professional Education courses; professional education courses include a research project and two sessions of school practice, each lasts for eight (8) weeks.

The following are the general education courses for ALL degree students in the School of Education:

**General Education Courses 21hrs**

Code	Title	LH	TH	PH	CH	CU
GECH 1101	Health Principles	30	30	00	45	3
GECC 1101	Funds of Computers & Office Appl.	45	00	30	60	4
GECL 1101	Introduction to Writing Skills	30	30	00	45	3
GECR 1101	Christian Beliefs	30	30	00	45	3
GECA 1201	Philosophy of Christian Education	30	30	00	45	3

**One of the 2 courses below**

Code	Title	LH	TH	PH	CH	CU
GECS 1201	Issues in Science and Religion	30	30	00	45	3
GECS 1202	Statistics	30	30	00	45	3

**One of the 4 courses below**

Code	Title	LH	TH	PH	CH	CU
GECV 1201	Motor Vehicle Driving	15	00	30	30	2
GECV 1202	Tailoring	15	00	30	30	2
GECV 1203	Catering	15	00	30	30	2
GECV 1204	Music Appreciation	15	00	30	30	2

**Entry Requirements**

For a BA or BSc with Education degree, one must satisfy the minimum university entry requirements and should have attained a principle pass or C+ and above in each of the teaching subjects, for both degree and diploma. For more details concerning admissions, please refer to the information provided in the General Information section of this bulletin. Teachers with a Diploma in Education qualify for a degree program; those with a Grade III Teaching Certificate or its equivalent may register for the diploma course.

**Requirements for Graduation**

- A student must pass all required courses for graduation.
- The minimum total credit units to be covered is 130 for those doing BA and 136 for those doing BSc with Education.
- A minimum grade of D is required for each teaching subject and the professional education courses including the two school practices. For more information, see General Information part of this bulletin.
- A student must go on an educational trip organized by the School of Education at least once in the course of study (second semester of second year).

**Program Structure**

- Departments of Arts Education & Language Education (130 CUs)
- Department of Science Education (136 CUs)

**Degree Summary**

(Arts & Language Education)	Cr.
General Educ. Courses	21
Professional Educ. Courses	27
Teaching subject 1	33
Teaching subject 2	33
Teaching Methodology	4
School Practice I and II	6
Research	6
<b>Total credit units</b>	<b>130</b>

**Degree Summary**

(Science Education)	Cr.
General Educ. Courses	21
Professional Educ. Courses	27
Teaching subject 1	36
Teaching subject 2	36
Teaching Methodology	4
School Practice I and II	6
Research	6
<b>Total credit units</b>	<b>136</b>

## DEPARTMENT OF ARTS EDUCATION

**Head of Department:** Sarah Hayuni; M.Ed. (*Educational Foundations & Management*)

### Mission

To provide Arts teacher trainees with an academically excellent, Christ-centred education and to offer them the opportunity to grow to their fullest potential intellectually, socially, physically and spiritually.

### Vision

Graduating morally upright and dependable professional Arts teachers

### Objectives:

**The Department of Arts Education seeks to:**

- Develop in students' proficiency and effectiveness in teaching.
- Meet the church and global demands for Arts teachers.
- Develop students' analytical skills to help them understand their world.
- Inculcate in the students' research knowledge and skills.
- Encourage purposeful and independent professionalism among graduate teachers.
- Prepare students for careers in different fields of education and life.
- Help students appreciate the God-given gift of cultural diversity.

### Career Opportunities

- Teaching
- Educational Administration and Management
- Foundation for advanced studies
- Curriculum designing
- Research

### Entry requirements

Students who enroll for a degree program in this department need to have two principal passes from their Higher Advanced School Certificate or its equivalent or do a Higher Education Certificate as required by the National Council of Higher Education for a year before they can enter into degree program.

### Secondary Education

Under the Department of Arts, professional education courses are taught. These courses are to be taken by all those who wish to study for either Bachelor of Arts with Education - Secondary or Bachelor of Science with Education – Secondary

### Program Structure

#### Degree Summary

General Education Courses	21
Professional Education Courses	27
Teaching subject 1	33
Teaching subject 2	33
Teaching Methodology	04
Research	06
School Practice	06
<b>Total credit units</b>	<b>130</b>

**Professional Education Courses, 27Credit Hours**

Code	Title	LH	TH	PH	CH	CU
BSED 1101	Educational Psychology and Human Development	30	30	00	45	3
BSED 1202	Principles and Methods of Teaching	30	00	00	30	2
BSED 1203	Instructional Technology	30	00	00	30	2
BSED 2104	Classroom Testing and Evaluation	30	30	00	45	3
BSED 3105	Philosophy & Sociology of Edu.	30	30	00	45	3
BSED 3106	Communication Skills & Professional Ethics in Education	30	30	00	45	3
BSED 3107	Guidance, Counseling & Special Needs Education	30	30	00	45	3
BSED 3208	Educational Administration & Supervision OR	30	30	00	45	3
BSED 3209	Economics & Planning of Education	30	30	00	45	3
BSED 3210	Comparative & History of Education	30	30	00	45	3
BSED 3211	Curriculum Principles & Dev't	30	00	00	30	2

**Teaching Methodology (any 4 credits as applicable)**

Code	Title	LH	TH	PH	CH	CU
BSTM 2101	Economics Teaching Methods	30	00	00	30	2
BSTM 2102	Geography Teaching Methods	30	00	00	30	2
BSTM 2103	History Teaching Methods	30	00	00	30	2
BSTM 2104	Religious Educ. Teaching Methods	30	00	00	30	2
BSTM 2105	Entrepreneurship Teaching Methods	30	00	00	30	2
BSTM 2106	Language Teaching Methods	30	00	00	30	2
BSTM 2107	Literature Teaching Methods	30	00	00	30	2
BSTM 2108	Business Studies Teaching Methods	30	00	00	30	2

**Research (6 credits)**

Code	Title	LH	TH	PH	CH	CU
BREM 2201	Research Methods	30	30	00	45	3
BREP 3102	Research Project	00	00	90	45	3

**School Practice (6 credits)**

Code	Title	LH	TH	PH	CH	CU
BSSP 2301	School Practice I	00	00	90	45	3
BSSP 3302	School Practice II	00	00	90	45	3

**NB:**

Students who are eligible to do School Practice must have passed with grade C or above the following prerequisite courses: BSED 1202 Principles and Methods of Teaching, BSED 1203 Instructional Technology and the two subject teaching methods of his or her relevant teaching subjects.

**Course Distribution for STUDENTS in the School of Education (Degree)****First Year**

Course	1 <sup>st</sup> Sem.	2 <sup>nd</sup> Sem.
GECL 1101	Intro. to Writing Skills	3
GECH 1101	Health Principles	3
GECR 1101	Christian Beliefs	3



GECC	1101	Fundamentals of Computers & Office Applications	4	
BSED	1101	Educational Psychology & Human Development	3	
GECA	1201	Philosophy of Christian Educ.		3
GECS	1202	Statistics		3
GECV	12--	Vocational Course		2
BSED	1202	Principles and Methods of teaching		2
BSED	1203	Instructional Technology		2
		Teaching Subject 1	3	3
		Teaching Subject 2	3	3
<b>Total</b>			<b>22</b>	<b>18</b>
<b>Second Year</b>				
<b>Course</b>			<b>1<sup>st</sup> Sem</b>	<b>2<sup>nd</sup> Sem</b>
		Teaching Methods (for Teaching Subject 1)	2	
		Teaching Methods (for Teaching Subject 2)	2	
BSED	2104	Classroom Testing & Evaluation	3	
BREM	2201	Research Methods	3	
		Teaching Subject 1	6	9
		Teaching Subject 2	6	9
<b>Total</b>			<b>19</b>	<b>21</b>
<b>Summer (After Year 2)</b>				
<b>Course</b>				<b>Credit</b>
BSSP	2301	School Practice I (8 weeks)		3
<b>Total</b>				<b>3</b>
<b>Third Year</b>				
<b>Course</b>			<b>1<sup>st</sup> Sem</b>	<b>2<sup>nd</sup> Sem</b>
BSED	3105	Philosophy & Sociology of Educ.	3	
BSED	3106	Communication Skills & Professional Ethics in Education	3	
BSED	3107	Guidance, Counseling & Special Needs Educ.	3	
BSED	3207	Educ. Admin. & Supervision OR		
BSED	3209	Economics & Planning of Educ.		3
BSED	3210	Comparative & History of Educ.		3
BSED	3211	Curriculum Principles & Dev't		2
		Teaching Subject 1	6	6
		Teaching Subject 2	6	6
BREP	3102	Research Project	3	
<b>Total</b>			<b>24</b>	<b>20</b>
<b>Summer (After Year 3)</b>				
<b>Course</b>				<b>Credits</b>
BSSP	3302	School Practice II (8 weeks)		3
<b>Total</b>				<b>3</b>

## For more details consult your Head of Department Teaching Subject areas and Subject combinations in the Department of Arts Education 109

The Department offers Bachelor of Arts Degree with Education (BA, Ed) in any two of the following teaching subjects: Economics, Entrepreneurship, Business Studies, Geography, History, Religious Studies, Kiswahili, English and Luganda.

Subject Combinations include the following: -

Geography/ Religious /Education	History /Religious Education
Geography/ History	History /Economics
Geography/Entrepreneurship	History /Entrepreneurship
Geography /Economics	Economics /Entrepreneurship
Geography/Kiswahili	Economics/Kiswahili
Geography/Luganda	Economics/Religious Education
Geography/English	Religious Education/Kiswahili
History/Kiswahili	Religious Education/Entrepreneurship
History/Luganda	Religious Education/English
History/English	Religious Education/Luganda
Geography/Business Studies	Business Studies (Double Main)
History/Business Studies	Religious Education/Business Studies
Kiswahili/Business Studies	

### NB

Geography, Economics and Entrepreneurship can also combine with some science subjects. In the same manner, some of the Arts subjects may also be combined with Languages as indicated in the above subject combinations

### List of codes used in secondary education

BSED	-	Bachelors Secondary Education
BSTM	-	Bachelors Secondary Teaching Methods
BECO	-	Bachelors Economics
BENT	-	Bachelors Entrepreneurship
BGEO	-	Bachelors Geography
BHIS	-	Bachelors History
BREL	-	Bachelors Religious Education
BSSP	-	Bachelors Secondary School Practice
BREM	-	Research Methods
BREP	-	Research Project
BMAT	-	Bachelors Mathematics
BACC	-	Bachelors Accounting
BHRM	-	Bachelors Human Resource Management
BMGT	-	Bachelors Management
BFNC	-	Bachelors Finance
BPPG	-	Bachelors Project Planning and Grant Management

## ECONOMICS

### Core Courses 30 Credit Hours

Code	Title	LH	TH	PH	CH	CU
BECO 1101	Microeconomics I	30	30	00	45	3
BECO 1202	Macroeconomics I	30	30	00	45	3
BMAT 1110	Business Algebra and Calculus	30	30	00	45	3
BECO 2103	Microeconomics II	30	30	00	45	3

BECO	2105	Monetary Economics	30	30	00	45	3
BECO	2206	Economic Thought	30	30	00	45	3
BECO	2207	Development Economics	30	30	00	45	3
BECO	2208	Macroeconomics II	30	30	00	45	3
BECO	3110	Economic Planning and Policy	30	30	00	45	3
BECO	3113	Public Finance& Fiscal Policy	30	30	00	45	3

**Electives (3 Credit Hours)**

Code		Title	LH	TH	PH	CH	CU
BECO	3219	Resource& Environmental Econ.	30	30	00	45	3
BECO	3216	Agricultural Economics	30	30	00	45	3
BACC	1101	Fundamentals of Accounting I	45	30	00	60	4

**NB:** Students taking Economics and another subject other than Entrepreneurship as the teaching subjects will be required to take BACC 1101 Fundamental of Accounting I as their elective.

**ENTREPRENEURSHIP****Core Courses 35 Credit Hours**

Code		Title	LH	TH	PH	CH	CU
BACC	1101	Fundamentals of Accounting I	45	30	00	60	4
BACC	1202	Fundamentals of Accounting II	45	30	00	60	4
BESB	2101	Basic Entrepreneurship	30	30	00	45	3
BMKT	2101	Marketing Management I	30	30	00	45	3
BPPG	2202	Project Planning & Management	30	30	00	45	3
BHRM	2209	Human Resource Management	30	30	00	45	3
BESB	2203	Small Business Management	30	30	00	45	3
BACC	2106	Taxation I	30	30	00	45	3
BMGT	3208	Business Strategy & Decisions	30	30	00	45	3
BBSA	3204	Business Ethics	30	30	00	45	3
BESB	3215	Entrepreneurship Attachment	00	00	90	45	3

**Recommended Course Schedule for Economics/Entrepreneurship****First Year**

Course			Semester 1	Semester 2
GECL	1101	Introduction to Writing Skills	3	
GECH	1101	Health Principles	3	
GECR	1101	Christian Beliefs	3	
GECC	1101	Fundamentals of Computers & Office Applications	4	
BSED	1101	Educational Psychology & Human Development	3	
BECO	1101	Microeconomics I	3	
BACC	1101	Fundamentals of Accounting I	4	
GECA	1201	Philosophy of Christian Education		3
GECS	1202	Statistics		3
GECV	12--	Vocational Course		2
BSED	1202	Principles and Methods of teaching		2
BSED	1203	Instructional Technology		2
BECO	1202	Macroeconomics I		3
BACC	1202	Fundamentals of Accounting II		4
<b>Total</b>			<b>23</b>	<b>19</b>

**Second Year**

<b>Course</b>			<b>Semester 1</b>	<b>Semester 2</b>
BSED	2104	Classroom Testing & Evaluation	3	
BSTM	2101	Economics Teaching Methods	2	
BSTM	2105	Entrepreneurship Teaching Methods	2	
BMAT	1110	Business Algebra and Calculus	3	
BECO	2103	Microeconomics II	3	
BECO	2105	Monetary Economics	3	
BMKT	2101	Marketing Management I	3	
BESB	2101	Basic Entrepreneurship	3	
BREM	2201	Research Methods		3
BECO	2206	Economic Thought		3
BECO	2207	Development Economics		3
BECO	2208	Macroeconomics II		3
BPPG	2202	Project Planning and Management		3
BHRM	2209	Human Resource Management		3
BESB	2203	Small Business Management		3
<b>Total</b>			<b>22</b>	<b>21</b>

**Summer (After Level 2)**

<b>Course</b>			<b>Credit Hours</b>
BSSP	2301	School Practice I (8 weeks)	3
<b>Total</b>			<b>3</b>

**LEVEL Three**

<b>Course</b>			<b>Semester 1</b>	<b>Semester 2</b>
BSED	3105	Philosophy & Sociology of Education	3	
BSED	3106	Communication Skills & Professional Ethics in Education	3	
BSED	3107	Guidance, Counselling & Special Needs Education	3	
BECO	3110	Economic Planning & Policy	3	
BECO	3113	Public Finance & Fiscal Policy	3	
BACC	2106	Taxation	3	
BREP	3102	Research Project	3	
BSED	3208	Educational Administration & Supervision OR		
BSED	3209	Economics & Planning of Education		3
BSED	3210	Comparative & History of Education		3
BSED	3211	Curriculum Principles and Development		2

**One elective (Economics)**

BECO	3216	Agricultural Economics		3
BECO	3219	Resource & Environmental Economics		3
BACC	1101	Fundamentals of Accounting I		4
BMGT	3208	Business Strategy & Decisions		3
BBSA	3204	Business Ethics		3
BESB	3215	Entrepreneurship Attachment		3
<b>Total</b>			<b>21</b>	<b>20/21</b>

**Summer (After Level 3)**

<b>Course</b>			<b>Credits</b>
BSSP	3302	School Practice II (8 weeks)	3
<b>Total</b>			<b>3</b>

**BUSINESS STUDIES (DOUBLE MAIN)****Core Courses 71 Credit Hours**

Code	Title	LH	TH	PH	CH	CU
BECO 1101	Microeconomics	30	30	00	45	3
BACC 1101	Fundamentals of Accounting I	45	30	00	60	4
BECO 1202	Macroeconomics	30	30	00	45	3
BACC 1202	Fundamentals of Accounting II	45	30	00	60	4
BMAT 1110	Business Algebra & Calculus	30	30	00	45	3
BACC 2103	Intermediate Accounting I	45	30	00	60	4
BECO 2103	Microeconomics II	30	30	00	45	3
BMKT 2101	Marketing Management I	30	30	00	45	3
BESB 2101	Basic Entrepreneurship	30	30	00	45	3
BACC 2204	Intermediate Accounting II	45	30	00	60	4
BFNC 2205	Financial Management	30	30	00	45	3
BECO 2208	Macroeconomics II	30	30	00	45	3
BESB 2205	Intermediate Entrepreneurship	30	30	00	45	3
BHRM 2209	Human Resource Management	30	30	00	45	3
BESB 2203	Small Business Management	30	30	00	45	3
BMGT 3103	International Management	30	30	00	45	3
BECO 3113	Public Finance & Fiscal Policy	30	30	00	45	3
BPPG 2202	Project Planning and Management	30	30	00	45	3
BMGT 3208	Business Strategy & Decisions	30	30	00	45	3
BBSA 3204	Business Ethics	30	30	00	45	3
BESB 3212	Business Plan	15	30	90	60	4
BESB 3215	Entrepreneurship Attachment	00	00	90	45	3

**Business Studies (Single Subject)****Core Courses 37 Credit Hours, 3 Years**

Code	Title	LH	TH	PH	CH	CU
BECO 1101	Microeconomics	30	30	00	45	3
BECO 1202	Macroeconomics	30	30	00	45	3
BACC 1101	Fundamentals of Accounting I	45	30	00	60	4
BMAT 1110	Business Algebra & Calculus	30	30	00	45	3
BACC 1202	Fundamentals of Accounting II	45	30	00	60	4
BPPG 2202	Project Planning and Management	30	30	00	45	3
BACC 2103	Intermediate Accounting I	45	30	00	60	4
BESB 2101	Basic Entrepreneurship	30	30	00	45	3
BFNC 2205	Financial Management	30	30	00	45	3
BESB 3212	Business Plan	15	30	90	60	4
BESB 3215	Entrepreneurship Attachment	00	00	90	45	3

**Recommended Course Schedule for Business Studies (Double Main)****First Year**

Course	Semester 1	Semester 2
GECL 1101	Introduction to Writing Skills	3
GECH 1101	Health Principles	3
GECR 1101	Christian Beliefs	3
GECC 1101	Fund'ls of Comp. & Office Appl.	4
BSED 1101	Educ. Psychology & Human Dev't	3
BECO 1101	Microeconomics	3
BACC 1101	Fundamentals of Accounting I	4
GECA 1201	Philosophy of Christian Education	3
GECS 1202	Statistics	3

GECV	----	Vocational Course		2
BSED	1202	Principles and Methods of teaching		2
BSED	1203	Instructional Technology		2
BECO	1202	Macroeconomics		3
BACC	1202	Fundamentals of Accounting II		4
<b>Total</b>			<b>23</b>	<b>19</b>

**Second Year**

<b>Course</b>			<b>Semester1</b>	<b>Semester 2</b>
BSED	2104	Classroom Testing & Evaluation	3	
BSTM	2108	Business Studies Teaching Methods	2	
BMAT	1110	Business Algebra & Calculus	3	
BACC	2103	Intermediate Accounting I	4	
BECO	2103	Microeconomics II	3	
BMKT	2101	Marketing Management I	3	
BESB	2101	Basic Entrepreneurship	3	
BREM	2201	Research Methods		3
BACC	2204	Intermediate Accounting II		4
BECO	2208	Macroeconomics II		3
BFNC	2205	Financial Management		3
BPPG	2202	Project Planning and Management		3
BESB	2205	Intermediate Entrepreneurship		3
BHRM	2209	Human Resource Management		3
<b>Total</b>			<b>21</b>	<b>22</b>

**Summer (After Level 2)**

<b>Course</b>			<b>Credit Hours</b>
BSSP	2301	School Practice I (8 weeks)	3
<b>Total</b>			<b>3</b>

**Third Year**

<b>Course</b>			<b>Semester1</b>	<b>Semester 2</b>
BSED	3105	Philosophy & Sociology of Education	3	
BSED	3106	Comm. Skills & Professional Ethics in Educ.	3	
BSED	3107	Guidance, Counselling & Special Needs Education	3	
BMGT	3103	International Management	3	
BECO	3113	Public Finance & Fiscal Policy	3	
BREP	3102	Research Project	3	
BESB	2203	Small Business Management	3	
BSED	3208	Educational Admin. & Supervision OR		3
BSED	3209	Economics & Planning of Education		3
BSED	3210	Comparative & History of Education		2
BSED	3211	Curriculum Principles & Development		3
BMGT	3208	Business Strategy & Decisions		3
BBSA	3204	Business Ethics		4
BESB	3212	Business Plan		3
BESB	3215	Entrepreneurship Attachment		3
<b>Total</b>			<b>18</b>	<b>24</b>

**Summer (After Year 3)**

<b>Course</b>			<b>Credits</b>
BSSP	3302	School Practice II (8 weeks)	3
<b>Total</b>			<b>3</b>

**GEOGRAPHY****Core Courses (30 Credit Hours)**

Code	Title	LH	TH	PH	CH	CU
BGEO 1101	World Physical Geography	30	30	0	45	3
BGEO 1202	Geography of East Africa	30	30	0	45	3
BGEO 2103	Spatial Organization	30	30	0	45	3
BGEO 2104	Geomorphology	30	30	0	45	3
BGEO 2205	Methodology in Geography	30	30	0	45	3
BGEO 2206	Geography of Africa	30	30	0	45	3
BGEO 2207	Geography of Uganda	30	30	0	45	3
BGEO 3108	Climatology	30	30	0	45	3
BGEO 3109	Intro. to Geographic Info. Sys. (GIS)	30	30	0	45	3
BGEO 3210	Biogeography	30	30	0	45	3

**Electives (3 Credit Hours)**

Code	Title	LH	TH	PH	CH	CU
BGEO 3211	Population Studies	30	30	0	45	3
BGEO 3212	Urban Geography	30	30	0	45	3
BGEO 3213	Regional Development & Planning	30	30	0	45	3

**HISTORY****Core Courses (27 Credit Hours)**

Code	Title	LH	TH	PH	CH	CU
BHIS 1101	World Civilization	30	30	0	45	3
BHIS 1202	Themes in History of Africa up to 1880	30	30	0	45	3
BHIS 2103	Themes in History of Africa since 1880	30	30	0	45	3
BHIS 2104	Themes in Hist. of E.A up to 1880	30	30	0	45	3
BHIS 2205	Themes in Hist. of E.A since 1880	30	30	0	45	3
BHIS 2206	History of Europe up to 1848	30	30	0	45	3
BHIS 2207	History of Uganda up to 1900 OR	30	30	0	45	3
BHIS 2208	History of Kenya up to 1895	30	30	0	45	3
BHIS 3109	History of Europe since 1848	30	30	0	45	3
BHIS 3110	History of Uganda since 1900 OR	30	30	0	45	3
BHIS 3111	History of Kenya since 1895	30	30	0	45	3

**Electives (6 Credit Hours)**

Code	Title	LH	TH	PH	CH	CU
BHIS 3212	History of Southern Africa OR	30	30	0	45	3
BHIS 3213	History of African Nationalism	30	30	0	45	3
BHIS 3214	History of West Africa from 1880	30	30	0	45	3
BHIS 3215	History of USA	30	30	0	45	3
BHIS 3216	Themes in the Hist. of the Middle East OR	30	30	0	45	3
BHIS 3217	Human Rights Struggle Throughout History	30	30	0	45	3

**Recommended Schedule for Geography/History****First Year**

Course		1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester
GECL 1101	Intro. to Writing Skills	3	

GECH	1101	Health Principles	3	
GECR	1101	Christian Beliefs	3	
GECC	1101	Fundamentals of Computers & Office Appl.	4	
BSED	1101	Educational Psychology & Human Development	3	
BGEO	1101	World Physical Geography	3	
BHIS	1101	World Civilization	3	
GECS	1202	Statistics		3
GECA	1201	Philosophy of Christian Education		3
GECV	12--	Vocational Course		2
BSED	1202	Principles and Methods of teaching		2
BSED	1203	Instructional Technology		2
BGEO	1202	Geography of East Africa		3
BHIS	1202	Themes in History of Africa up to 1880		3
<b>Total</b>			<b>22</b>	<b>18</b>

**Second Year**

Course			1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester
BSED	2104	Classroom Testing & Evaluation		3
BSTM	2102	Geography Teaching Methods		2
BSTM	2103	History Teaching Methods	2	
BGEO	2103	Spatial Organization		3
BGEO	2104	Geomorphology	3	
BHIS	2103	Themes in History of Africa since 1880	3	
BHIS	2104	Themes in History of East Africa up to 1880	3	
BREM	2201	Research Methods		3
BGEO	2205	Methodology in Geography		3
BGEO	2206	Geography of Africa		3
BGEO	2207	Geography of Uganda		3
BHIS	2205	Themes in History of East Africa since 1880		3
BHIS	2206	History of Europe up to 1848		3
BHIS	2207	History of Uganda up to 1900 OR		3
BHIS	2208	History of Kenya up to 1895		3
<b>Total</b>			<b>19</b>	<b>21</b>

**Summer (After Level 2)**

Course			Credit Hours
BSSP	2301	School Practice I (8 weeks)	3
<b>Total</b>			<b>3</b>

**Level Three**

Course			1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester
BSED	3105	Philosophy & Sociology of Education	3	
BSED	3106	Communication Skills in Education & Professional Ethics	3	
BSED	3107	Guidance, Counselling & Special Needs Education	3	
BGEO	3108	Climatology	3	



BGEO	3109	Introductions to Geographic Information Systems (GIS)	3
BHIS	3109	History of Europe since 1848	3
BHIS	3110	History of Uganda since 1900 OR	3
BHIS	3111	History of Kenya since 1895	3
BREP	3102	Research Project	3
BSED	3208	Educational Administration & Supervision OR	3
BSED	3209	Economics & Planning of Education	3
BSED	3210	Comparative & History of Education	3
BSED	3211	Curriculum Principles and Development	2
BGEO	3210	Biogeography	3

**One elective (Geography)**

BGEO	3211	Population Studies	3
BGEO	3212	Urban Geography	3
BGEO	3213	Regional Development and Planning	3

**Two electives (History)**

BHIS	3212	History of Southern Africa OR	3
BHIS	3213	History of African Nationalism	3
BHIS	3214	History of West Africa from 1880	3
BHIS	3215	History of USA	3
BHIS	3216	Themes in the History of the Middle East OR	3
BHIS	3217	Human Rights Struggle throughout History	3

**Total** **24** **20**

**Summer (After Level 3)**

<b>Course</b>			<b>Credits</b>
BSSP	3302	School Practice II (8 weeks)	3
<b>Total</b>			<b>3</b>

**Religious Education**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BREL 1101	Biblical Backgrounds	30	30	00	45	3
BREL 1202	Comparative Religions	30	30	00	45	3
BREL 2103	Pentateuch and Hexateuch	30	30	00	45	3
BREL 2104	Psalms & Wisdom Literature	30	30	00	45	3
BREL 2205	African Traditional Religious Beliefs	30	30	00	45	3
BREL 2206	Old Testament Prophets	30	30	00	45	3
BREL 2207	Studies in the Gospels	30	30	00	45	3
BREL 3108	Religious Ethics OR	30	30	00	45	3
BREL 3109	Societies & Christian Living	30	30	00	45	3
BREL 3110	History of the Christian Church	30	30	00	45	3
BREL 3211	Acts & Epistles	30	30	00	45	3

**Electives (3 Credit Hours)**

<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BREL 3212	African Christian Theology	30	30	00	45	3
BREL 3213	History of the Christian Church in Uganda	30	30	00	45	3

## Recommended Schedule for Religious Education

### Year One

Course			1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester
GECL	1101	Intro. to Writing Skills	3	
GECH	1101	Health Principles	3	
GECC	1101	Fundamentals of Computers & Applications	4	
GECR	1101	Christian Beliefs	3	
BSED	1101	Educational Psychology & Human Development	3	
BREL	1101	Biblical Backgrounds	3	
		Teaching Subject 2	3	
GECA	1201	Philosophy of Christian Education	3	
GECS	1202	Statistics		3
GECV	12--	Vocational Course		2
BSED	1202	Principles and Methods of teaching		2
BSED	1203	Instructional Technology		2
BREL	1202	Comparative Religions		3
		Teaching Subject 2		3
<b>Total</b>			<b>22</b>	<b>18</b>

### Year Two

Course			1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester
BSED	2104	Classroom Testing & Evaluation	3	
BSTM	2104	Religious Educ. Teaching Methods	2	
BSTM	----	Subject 2 Teaching Methods	2	
BREL	2103	Pentateuch and Hexateuch	3	
BREL	2104	Psalms & Wisdom Literature	3	
		Teaching Subject 2	6	
BREM	2201	Research Methods		3
BREL	2205	African Traditional Religious Beliefs		3
BREL	2206	Old Testament Prophets		3
BREL	2207	Studies in the Gospels		3
		Teaching Subject 2		3
<b>Total</b>			<b>19</b>	<b>21</b>

### Summer (After Year 2)

Course			Credits
BSSP	2301	School Practice I (8 weeks)	3
<b>Total</b>			<b>3</b>

### Third Three

Course			1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester
BSED	3105	Philosophy & Sociology of Education	3	
BSED	3106	Communication Skills & Professional Ethics in Education	3	

BSED	3107	Guidance, Counselling & Special Needs Educ.	3	
BREL	3108	Religious Ethics OR	3	
BREL	3109	Societies & Christian Living	3	
BREL	3110	History of the Christian Church	3	
BREP	3102	Research Project		3
BSED	3208	Educational Admin. & Supervision OR		3
BSED	3209	Economics & Planning of Education		3
BSED	3210	Comparative & History of Education		3
BSED	3211	Curriculum Principles and Development		2
BREL	3211	Acts & Epistles		3
BREL	3212	African Christian Theology OR		3
BREL	3213	History of the Christian Church in Uganda		3
		Teaching Subject 2		6
<b>Total</b>			<b>24</b>	<b>20</b>

**Summer (Year 3)**

<b>Course</b>				<b>Credit Hours</b>
BSSP	3302	School Practice II (8 weeks)		3
<b>TOTAL</b>				<b>3</b>

**NB:** - For Recommended Course Schedule for English, Luganda and Kiswahili refer to Department of Language Education

## PROFESSIONAL EDUCATION COURSE DESCRIPTIONS

### **BSED 1101 Educational Psychology and Human Development**

This course has two distinct units: the psychology of growth and development and the psychology of learning. The psychology of growth and development examines developmental aspects of human growth. It aids the teacher's understanding of the psychological development of the learner. Physical, social and psychological changes of the prenatal period, infancy, babyhood, childhood, puberty, adolescence and early adulthood will be studied. The psychology of learning concerns the study of the ways in which psychological knowledge can be applied to the teaching-learning process which will be studied. Course content includes: the factors affecting learning, individual differences, personality, motivation, theories of learning such as association, gestalt and cognitive will be studied.

### **BSED 1202 Principles and Methods of Teaching**

The course introduces students to the teaching profession. It discusses the personal and professional qualities of a teacher, responsibilities of a teacher in the school and the basic knowledge about teaching, the nature of learners and learning in general. It also surveys different methods and techniques of teaching, marking schemes of work, lesson planning, and classroom management.

### **BSED 1203 Instructional Technology**

The course is intended to present a simple approach to teaching procedures for classroom instruction. It offers practical principles on areas like modules, preparation and use of audio-visual materials, correct demonstration processes, development and practicing on – the job teaching programs. It gives valuable tips on how to be an efficient teacher, effective motivation techniques and how to flash out teaching objectives based on to the aids to be applied.

### **BSED 2104 Classroom Testing and Evaluation**

This course looks at educational terms of instructional objectives. It covers construction of tests and examinations used in the classroom setting such as essays and objective questions. The concepts of reliability and validity measures like mean, mode, median, and standard deviation will be discussed.

### **BREM 2201 Research Methods**

This course introduces students to the needs and functions of research in education. Emphasis is placed on practical application of basic research techniques and designs. The course will include the following topics: development of a research problem, objectives, hypothesis, significance, limitations and delimitations, review of literature, a research theory, theoretical framework, various methods of data collection, descriptive and inferential data analysis and their interpretation. The following terms shall be emphasized: variables, sampling, research validity and reliability, degree of freedom, significance and non-significance of research findings. The use of computer in analysis of research findings may also be emphasized.

### **BSED 3105 Philosophy and Sociology of Education**

There are two parts to this course; philosophy of education and sociology of education. In the first part the students are introduced to the study of philosophy as a discipline. Its main objective is to provide the student with a framework for the critical evaluation and intelligent discussion of problems and issues which philosophers in their endless search for wisdom have entertained through the ages. Acquisition of basic philosophical knowledge will, in turn, enable the student to rationally and effectively handle political, religious, economic and social issues that face them without dependence on others.

In the second part, problems and issues of contemporary education are examined from a social perspective. Topics to be discussed include society, its values, norms, functions and institutions as attached to education in all its forms - formal, informal and non-formal, socialization, social stratification, culture, the school as a social institution and organization, the sociology of the classroom, the teaching profession, deviant behavior in schools among others, This course also explores the role of education in industrialization, bureaucracy, culture, religion, professionalism and stratification.

### **BSED 3106 Communication Skills and Professional Ethics in Education**

This course has two parts: communication skills and professional ethics in education. Communication skills is a performance-based course designed to cover a wide variety of communication topics especially related to educational setting and situations and will include various skills needed for effective communication. Written, oral and non-verbal communication skills will be practiced. Communicating with various stakeholders within the school setting will be taught using relevant situations.

Professional ethics helps student teachers develop wholesome personalities, moral character, personal efficiency, democratic ways of life, useful citizenship, practical nationalism and international goodwill so that they can be men and women of sound character, high ideals, broad background and of profound understanding of human nature for they are called upon to be devoted to duty and to be honest, punctual and efficient in every way possible.

### **BSED 3107 Guidance, Counseling and Special Needs Education**

Guidance and counseling deals with the study of the meaning, nature, development, needs, functions, principles and practices of guidance and counseling and the role of the teacher as a counselor. Theories of counseling, types and stages of counseling and communication techniques will be explored. Personality, occupational choice and career development will also be done.

This course gives an introduction to the field of special education which caters for learners considered exceptional. Psychological and physical characteristics are discussed as well as problems faced by exceptional people in schools and society at large. It also examines ways of dealing positively with these issues. Some areas covered are hearing, vision and physical impairment, behavior disorders, mental challenges, gifted and talented children.

### **BSED 3208 Education Administration and Supervision**

Educational Administration and supervision equips the students with knowledge of the administrative structure of the education systems in East Africa. It introduces them to communication (patterns, types, channels, communication breakdown and communication for good results), styles of leadership and the management theories and techniques of school administration and supervision and approaches to supervision. It further equips the students with knowledge and techniques of handling human relations especially in the school setting.

### **BSED 3209 Economics and Planning of Education**

Economics and Planning of education discusses ways schools are funded, utilization of school finance in order to achieve maximum results, budgeting: its language and implementations and various ways of controlling finance in the school system, and the role of auditing school books. The course coverage includes some general economic aspects such as the economic role of government in a mixed economy and its impact on schooling and school products.

### **BSED 3210 Comparative and History of Education**

This part begins with African indigenous education. It surveys the development of formal education in East Africa by missionaries up to the time of independence. Various education commissions, committees, Ordinances and Acts before and after independence will be studied. The comparative education section surveys major education issues, problems and systems of the ancient and modern times. It analyses the impact of western education on African education systems. It further studies modern Uganda, Kenya, Tanzania, Rwanda, Burundi, India and USA educational systems and their implication on the political, social and economic setup in the respective countries.

### **BSED 3211 Curriculum Principles & Development**

This course introduces students to the basic principles that define and govern the curriculum. The focus will be on the conceptual definitions of curriculum; the foundations of the curriculum; the processes of curriculum development, i.e. curriculum planning, design, implementation and evaluation; the agencies of curriculum development e.g. NCDC; and the relationship between curriculum and instruction.

### **BSTM 2101 Economics Teaching Methods**

**Prerequisite: pass with a C in BSED 1202**

The course deals with various methods and strategies of teaching economics in secondary schools. Relevant subjects such as commerce and principles of accounts will also be stressed. Students will mainly be trained in the procedures of lesson planning and schemes of work relevant to economics, commerce and principles.

### **BSTM 2102 Geography Teaching Methods**

**Prerequisite: pass with a C in BSED 1202**

The course covers geography as a school subject, aims and objectives of geography education, curriculum context, design and development, planning for teaching and geography teaching in secondary schools, methods of geography teaching indoors and in the field. Piaget's model of mental development, evaluation in geography i.e. environment, photographs and maps in teaching of geography will be discussed.

### **BSTM 2103 History Teaching Methods**

**Prerequisite: pass with a C in BSED 1202**

This course deals with the meaning and importance of teaching history. It looks at the aims of teaching history. The UNEB O -Level and A-Level history syllabi will be discussed, together with specific methods and instructional aids that are suitable for teaching history.

### **BSTM 2104 Religious Education Teaching Methods**

**Prerequisite: pass with a C in BSED 1202**

This course deals with selected methods and instructional aids used in Religious Education. Students will be taught how to develop a course outline, schemes of work and lesson plans that incorporate creative methods of teaching including the cognitive, affective, and psychomotor aspects of instruction. Discussion will also include the application of some of the following teaching methods: inductive and deductive methods, review method, topical method, expository method, textual method, problem method, questioning method, contextualization, application, project method, role play method, lecture method, team teaching, group dynamics, discussion, assignment and recitation. The relevance of teaching religious education as a course in upholding and instilling moral and social values in modern society will be stressed.

### **BSTM 2105 Entrepreneurship Teaching Methods**

#### **Prerequisite: pass with a C in BSED 1202**

The course deals with various methods and strategies of teaching entrepreneurship in secondary schools. Relevant subjects such as commerce and principles of accounts book keeping will also be stressed. Students will mainly be trained in the procedures of lesson planning and schemes of work relevant to entrepreneurship.

### **BSTM 2106 Language Teaching Methods**

#### **Prerequisite: pass with a C in BSED 1202**

The course deals with the development of language skills necessary for teaching English, Kiswahili and Luganda. Emphasis is placed on teachers-in- training developing a repertoire of strategies that enhance a variety of learning outcomes. Students will be trained in the procedures of lesson planning and schemes of work relevant to language teaching.

### **BSTM 2107 Literature Teaching Methods**

#### **Prerequisite: pass with a C in BSED 1202**

The course deals with various methods and strategies of teaching Literature in O' and A' levels. Students will be trained in the procedures of lesson planning and schemes of work relevant to Literature in English. Relevant methods in teaching drama, prose, and poetry will be fully discussed.

### **BSTM 2108 Business Studies Teaching Methods**

#### **Prerequisite: pass with a C in BSED 1202**

The course deals with the development of language skills necessary for teaching Business Education Subjects. Emphasis is placed on teachers-in- training developing a repertoire of strategies that enhance a variety of learning outcomes. Students will be trained in the procedures of lesson planning and schemes of work relevant to Business Education teaching.

### **BREP 3102 Research Project**

#### **Prerequisite: pass with a C in BREM 2201**

In this course, education students will carry out a study in the area of education, preferably, a topic related to one of the student's teaching subjects. The instructor must first approve a research proposal before the student may go on to collect data, analyze it and submit a research report. The report must be in the APA style.

### **BSSP 2301 School Practice I and BSSP 3302 School Practice II**

#### **Prerequisites: Pass with C in BSED 1202, BSED 1203 & Subject Teaching Methods**

This is an application of teaching theory in the classroom. In school practice, students are given real life experience in schools. There are two sessions of school practice, each of 8 weeks duration. During school practice, students will be exposed to all aspects of school life. They are, therefore, expected to participate in all school activities.

## **COURSE DESCRIPTION FOR GEOGRAPHY**

### **BGEO 1101 World Physical Geography**

The course deals with the study of world physical characteristics, the atmospheric behavior, lithosphere, biosphere and hydrosphere and how they are interrelated. It also deals with theories of land form evolution based on endogenetic and exogenetic factors and the potential use and values of the atmosphere, lithosphere, hydrosphere and biosphere with emphasis on flora.

### **BGEO 1202 Geography of East Africa**

The course deals with the physical background of East Africa, theories of physical formation, major landforms, hydrology of East Africa climate, vegetation and soils. The course also handles East African Resources, their development and constrains. Theories further deals with the ecological regions of East Africa and how they can be utilized for development. The course furthers handles the infrastructure within East Africa and its impact on development of Agriculture as the major sector and how it was been under developed, models of land use, industry, population and the contemporary state of development in the Region.

### **BGEO 2103 Spatial Organization**

The course introduces students to spatial distribution of environmental phenomena and its relationship. The course deals with how Human activities affect the environment like industrial location, level of development culture of People and political environment.

### **BGEO 2104 Geomorphology**

This course deals with historical development in geomorphology, geomorphic contributions of some scholars or Schools of thought, geographical cycles, theories such as plate tectonics, sea floor spreading and continental draft, earthquakes, weathering, drainage basin and coastal geomorphology. The course also deals with climatic processes relevant to geomorphology, glacial and desert deposits. It also deals with geomorphic hazards, their types, detection, prevention and protection.

### **BGEO 2205 Methodology in Geography**

The course exposes students to practical geography as an essential ingredient of the geography curriculum. The course covers map reading, map analysis, photographic interpretation, introduction to data collection in the field and quantitative techniques. The course addresses interrelation ships between physical and human phenomena on maps and photographs, and their actual distribution in the environment (field).

### **BGEO 2206 Geography of Africa**

The course focuses on ordinary and contemporary aspects of geography in Africa and how they are being manipulated for development. The course specifically focuses on the physical and background characteristics of Africa, physical, geology, demography; resources and their potential and prospects; Historical background i.e. Africa in pre-colonist times, colonial period, influence of colonialism on its development, post-colonial period, mineral resources in Africa; industrialization; energy and power; environmental deterioration and desertification in Africa; food crisis and political geography of Africa.

### **BGEO 2207 Geography of Uganda**

This course deals with the physical and biological foundations of Uganda; the physical regions and their resource potential; the geological aspects like rocks, mineral formations and soils as functional processes. The course also deals with hydrology and climate of Uganda. It deals with the economic background of Uganda in terms of the general trend of Uganda's economy, Agriculture, industrial trend its problems and prospects; infrastructure; population its structure and demographic variables and the economic implications; migrations' population control and policy/ regional planning policy in Uganda; concepts and urban planning; application of regional and urban planning policy in Uganda; urban settlements land systems physical land use planning in urban and rural areas, and realization of urban centers and its implications in Uganda.



### **BGEO 3108 Climatology**

The course deals with the atmosphere, its composition, and mechanism within the atmosphere, weather elements, measurements and recording in the field, climatic behavior and its determinants; global circulation, weather forecasting, climatic classification and their influence on man's activities. It also deals with atmospheric air pollution/climatic change, influence of climate on our environment e.g. greenhouse effect on the lithosphere and hydrosphere and the Ecosystem.

### **BGEO 3109 Introduction to Geographical Information System (GIS)**

The course introduces GIS, GIS systems, data input and output, data management models, GIS cases studies of resource inventory, maintenance, resource monitoring and Environmental modeling.

### **BGEO 3210 Biogeography**

This course introduces students to concepts in biogeography, scope, systems analysis, the ecosystem concepts, ecology productivity, diversity and their distribution in the physical environmental. The course also deals with major ecological systems in East Africa and problems associated with their development and maintenance. It also deals with man's interaction and relationship. It will also cover the impact of man on natural ecosystems in East Africa.

### **BGEO 3211 Population Studies**

The course population will deal with types and sources of population data, surveys basic demographic components, motility and fertility measurements, population estimates. The course further deals with development of population theories and models, uses of population data, world patterns of population distribution, patterns of population composition, migration and its impact on development. Evaluation of population policies with specific reference to Uganda.

### **BGEO 3212 Urban Geography**

Urban geography will deal with the theories and concepts of towns and cities, scope of urban geography, the concept of urbanization in LDC's with emphasis on Africa. Evolution of towns; classification and development of urban centers; Situation and urban morphology, theories of urban growth, for example Christaller's theories, urban decline, urbanization in Uganda, reasons for and problem. Urban policy in Uganda, rural urban interaction, and the impact of urbanization or land use.

### **BGEO3213 Regional Development and Planning**

The course, regional planning deals with the spatial characteristics of regional development in selected advanced economies in the world. Application of principles of regional development and related planning tools of regional development in developing economies. Special emphasis will be directed to the implications of policies practiced in Africa and East Africa in particular

## **COURSE DESCRIPTION FOR HISTORY**

### **BHIS 1101 World civilization**

The course surveys the origin and developments of world civilization. Emphasis will be laid on ancient world civilizations of Mesopotamia, Egypt, India, and China together with the Hebrew civilization. Classical civilizations of Greece and Rome will also be analyzed. The rise of European civilization and its influence on modern world will also be analyzed.

### **BHIS 1202 Themes in History of Africa up to 1880**

This is a thematic course that aims at introducing the student to socio-economic and political developments which took place in Africa in the pre-colonial times. It also introduces students to contacts between Africa and the rest of the world. It provides a foundation upon which further studies in African History since the advent of European colonialism are based.

### **BHIS 2103 Themes of History of Africa since 1880**

African History since 1880 analyses major developments in the history of Africa from the time of the scramble and partition of Africa to the present day independent Africa.

### **BHIS 2104 Themes in History of East Africa up to 1880**

This course provides a foundation for history students. It introduces them to the history of social, political and economic structures and systems of East African peoples. It starts with East-African pre-history and covers traditional education, traditional government, State building, and economic building including internal and external trade, inter-state relations and the Penetration of Europeans to the interior of Africa.

### **BHIS 2205 Themes in History of East Africa since 1880**

The course builds on the earlier period and largely covers Colonial and post-colonial period of East Africa. It focuses on the process of colonization, establishment of colonial economies, colonial education systems, the spread of Islam and Christianity, decolonization, military rule, one party and no party rule, democratization, ethnic politics, civil wars, regional economic grouping and neo-colonialism.

### **BHIS 2206 History of Europe up to 1848**

This course examines the important political, social and economic events and forces that transformed European societies before the 19<sup>th</sup> century. Attempt is made to relate European experiences of this period to those of other countries specially Africa in order to extract lessons. The course focuses on early civilization in Europe, the mercantile era in Europe, industrial and French revolutions, European diplomacy after Napoleonic wars, 1830 and 1848 revolutions, Nationalism in Europe and the Eastern question, unification of German and Italy, capitalism and socialism plus imperialism and conflict.

### **BHIS 2207 History of Uganda up to 1900**

The course covers three periods in the historical development in Uganda from the earliest period to the advent of colonialism. This course covers Historiography, the peopling of Uganda, pre-colonial state formation, pre-colonial economy –production and exchange, early external contacts traders from the coast, Trade form the North (Islam ), explorers and missionaries, religious- political wars at the turn of the 19<sup>th</sup> century, the process of integrated Uganda into the international capitalist system, new imperialism and the colonization of Uganda, African response to colonial imposition, Establishment of colonial administration –indirect and divide and rule, Establishment of colonial economy, establishment of social services in Uganda, colonial education and the beginning of uneven development.

### **BHIS 2208 History of Kenya up to 1895**

The course surveys the history of Kenya from antiquity to the time of colonial conquest and consequent rule. Topics include the peopling of Kenya, the social, economic and political institutions of the pre-colonial societies and pre-colonials contacts between the people of Kenya and the outside world.

### **BHIS 3109 History Europe since 1848**

This course deals with major political, economic and social developments in Europe since 1848 and their impact on Europe and the world as a whole. The course will focus on the struggle for the dominance of Europe, Europe and imperialism, First World War and peace making, League of Nations and Alliance system, the Bolshevik Revolution in Russia, Second World War, United Nations, cold war, African and Europe (Post independence period and European Union.) and European Union.

### **BHIS 3110 History of Uganda since 1900**

This course covers the establishment and consolidation of imperial structures, under-development theories and their relevance to Uganda, the colonial economic system, the development of education, the impact of the world wars on Uganda, decolonization process, the formation of political parties, independence and constitutional crises, the search for a viable political system: Federal agitation, Single vs multiparty politics and the period of elections. It continues with the military and politics in Uganda, economic war and expulsion of Asians, the development of social services since independence. It will end with Uganda in war geo-polities.

### **BHIS 3111 History of Kenya since 1895**

This is a study of the history of Kenya from the time of the establishment of colonial rule to the present. It looks at causes for the scramble, partition and consequent colonial rule of Kenya by the British. It further studies the response of Kenyan communities to the introduction and establishment of colonial rule, colonial administration, and the growth of nationalism the road to independence and finally the history of independence Kenya.

### **BHIS 3212 History of Southern Africa**

This course surveys the history of Southern Africa. It starts with the settlement and the political, economic and social organization of its indigenous societies namely; San, Khoikhoi, and the Bantu. White settlement and its impact on African societies will be discussed. It covers the Mfecane and the rise of post Mfecane states namely; the Zulu, Sotho, Kololo, and Ndebele. It covers the mineral revolution in South Africa and its impact on White and African communities. It covers African resistance to colonial rule, the formation of South African Union and the impact white minority rule its racial policies on Africans. It will also cover the growth of African nationalism leading to African majority rule.

### **BHIS 3213 History of African Nationalism**

The course introduces students to the rise, nature and scope of African nationalism during the colonial period. Special focus is placed on external and internal factors that influence the growth of African national consciousness, which led to the decolonization process. It will cover History of the Africans in the Diaspora from the time of trans-Atlantic slave trade, slave rebellion in Jamaica Haiti and Brazil; the growth of African nationalism, the role of Africans in the Diaspora e.g. Du Bois and Marcus Garvey, Manchester conference, the formation of OAU/AU and it will end with liberation movements in Angola Mozambique, Zimbabwe, Guinea Bissau and South Africa.

### **BHIS 3214: History of West Africa from 1880**

This course surveys the history of West Africa from 1800 to the present. It begins with the Islamic revolutions in West Africa. It discourses the growth of legitimate trade and European involvement in African affairs until the imposition of colonial rule. It also discourses colonial administrative, social and economic policies. It deals with African reaction to colonial rule up to the attainment of independence. It deals with problems faced by West African states after independence.

### **BHIS 3215 History of USA**

The course surveys the history of the USA from the time of European settlement, the war of independence and the civil war and reconstruction. It further looks at the growth of USA into a world industrial and military super power.

### **BHIS 3216 Themes in the History of the Middle East.**

This is an interdisciplinary course in the study of the Islamic World. The Middle East is one of the most interesting areas of study owing to its strategic and economic significance that have endeared it to many European countries and the United States of America. The curriculum of this area is based on a theoretical framework that examines contemporary, national and ethnic cultures of the Middle East with in a global context. Some of the topics include, The great powers of the Middle East such as Egypt, Saudi Arabia and Turkey, the Middle East and the Second World War, Western Imperialism in the Middle East, Nationalism and the Nationalization of oil in Iran by Muhammad Mussadiq, Rise of Ibn Saud as King of Saudi Arabia, Discovery of oil in the Kingdom of Saudi Arabia, rise of Faisal in Saudi Arabia his domestic and foreign policy, the discovery of oil in Saudi Arabia, the Arab League, the Palestinian problem, the Sue Canal crisis of 1956, the 1967 and 1973 Arab – Israel Wars and their effects, USA involvement in the Middle East and the Camp David agreement, improved Arab- Israelite relations and the creation of the Palestinian authority.

### **BHIS 3217 Human Rights struggle throughout History.**

This course introduces students to the different aspects of human rights and some of the supporting bodies. The major topics include, the definition and origin of human rights, the Universal Declaration of human Rights, the African Charter for Peoples and Human Rights (the Banjul Charter), the Geneva Convention, the children's Rights, the concept of derogation, colonialism and Human Rights, the Military and Human Rights in Africa, and the US constitution and the Bill of rights.

## **COURSE DESCRIPTIONS FOR RELIGIOUS EDUCATION**

### **BREL 1101 Biblical Backgrounds**

The course deals with archaeological, cultural, geographical and historical background of the Bible. Special emphasis is put on the Hebrew patriarchs, Exodus, conquest, the reign of David, the empire of Solomon, Israel and the Arameans, Israel and the Assyrians and the Canaanite religion and their gods – El, Baal, Astarte, Asherah, Anath and their mode of worship.

### **BREL 1202 Comparative Religions**

The course surveys distinctive beliefs and practices as they are taught and observed. Emphasis is on how these teachings, beliefs and practices are manifested in Africa. Major religions of the world, namely; African traditional religions, Hinduism, Buddhism, Jainism, Sikhism Confucianism, Taoism, Shintoism, Judaism, Islam, Zoroastrianism and Christianity will be discussed.

### **BREL 2103: Pentateuch and Hexateuch**

This course surveys the Pentateuch and Historical books with emphasis on those historical events which bear upon God's unfolding plan to save humankind and determining the development of Israel as a covenant faith community. Selected themes with salvation implication are explored in a special way as books of the Old Testament are surveyed. Questions of introduction and content of the Pentateuch will be addressed with special emphasis upon themes and passages of great theological import. Comparisons of life, laws, literature, customs and institutions of Israel with those of the present day will be done.

### **BREL 2104 Psalms and Wisdom Literature**

The course emphasizes is put on the origin, composition, the diverse character and meaning of these writings and the unique contribution of each book to the wisdom tradition of ancient Israel. Ways to apply its teachings in the 21<sup>st</sup> Century and appreciation will be emphasized. Primarily the Psalms, books of Proverbs, Job, Song of Songs and Ecclesiastes will be discussed as part of the course. Students may be expected to write minor projects on given themes

### **BREL 2205 African Traditional Religious Beliefs**

The course gives the student opportunity to understand the beliefs and practices that are found in the many African traditional religions. The course emphasizes the attitudes of mind, religious beliefs basic teachings and practices that encompass the totality of life and which have evolved in many African communities.

### **BREL 2206 Old Testament Prophets**

This course is a historical and literary introduction to the OT prophets and seeks to enable the RE student to be prepared to read the prophets with understanding. Former, minor and major prophets will be discussed. The nature of life and ministry of the early non-writing Israelite prophecy will be taught. Four aspects of each of the prophetic books will be examined, namely: the prophet's historical and political setting; the major events in the life and ministry of the prophets; the contents of the structure of the book; and the major concerns and themes of the prophets.

### **BREL 2207 Studies in the Gospels**

A study of the person, message and mission of Jesus Christ as recorded in the gospels as sources of historical data about Jesus Christ and their impact on the life of Christians.

### **BREL 3108 Religious Ethics**

The course surveys the biblical and philosophical basis for Religious ethics and its relevance for moral and social decision-making. The discussion takes into account the major ethical theories, principles and alternatives, criterion for moral judgment, human dignity and human rights, duty and responsibility, state and citizens. Ethical issues to be covered in this course include homosexuality, pre-marital sex, HIV/AIDS, euthanasia, abortion, birth control, capital punishment, divorce and re-marriage, bio-medical issues(organ harvesting and transplant, artificial insemination, surrogate motherhood, blood transfusion etc.), corruption, exploitation, discrimination, state oppression and resistance to it and environmental degradation.

### **BREL3109 Societies and Christian Living**

This course examines the role of Christian living in modern society. Included are discussions of man in a changing society, order and freedom in society, life, relationship between man and woman, and man's response to God through faith and love

### **BREL 3110 History of the Christian Church**

This course examines the history of the Christian religion from its beginnings around AD 34. The thrust of the course takes off from Christianity's apostolic origins to the protestant reformation, from the rise of modern denominations down to the worldwide mission expansion. An attempt is made to emphasize the contribution made by early church fathers. Introduction and spread of the Christian church of the African continent from antiquity to the present time will also be discussed. A survey type of term paper on stipulated topics will be required as a fulfillment of requirements for this course.

### **BREL 3211 Acts and Epistles**

The course has two parts: Acts of the Apostles and Epistles. The first part is a study which focuses on the history of the apostolic church as documented in the book of Acts, its transition to other parts outside Jerusalem, the problem faced in its initial stages with the function of the Holy Spirit. The second part focuses on the letters or Epistles in the NT written by various teachers in the infant (primitive) church to congregations and individuals in order to provide further instructions in the Christian faith and their impact on the modern Christians.

### **BREL 3212 African Christian Theology**

This is a theology responsible to a particular locality of culture, history and people. The tremendous value of this course for students at the university is the picture it gives of the creativity, vitality and variety of Christian thought in the African church today. There is a quiet determination among African Christians that their commitment to Jesus Christ must be responsible to the life that they live in Africa today. The selected themes in this course will enable the students to enter a world in which the familiar themes of faith take on quite new meanings against the new backgrounds and in which strange themes from other cultures start to shine with Christian meanings. It focuses itself upon the question posed by Jesus Christ: "who do you say that I am?" Students who take seriously Jesus' question will find a genuine fascination in the discovery of theologies developed in cultural zones other than their own

### **BREL 3213: History of the Christian Church in Uganda**

The course surveys the Missionaries' arrival and impetus from Europe, the contribution of Buganda Kingdom, its system of governance, the influence of traders and the coming of other religions in Uganda. The roots of Christianity in Uganda will also be traced up to present day

## **COURSE DESCRIPTIONS FOR ECONOMICS**

*For course descriptions of Economics courses refer to School of Business*

## **COURSE DESCRIPTIONS FOR ENTREPRENEURSHIP**

### **BENT 3220 Entrepreneurship Attachment**

The course intends to equip the entrepreneurship students with hands-on-skills of business in the real world. It is meant to harmonize theory and practice and enable the student in training to be mentored into practical business pursuits to enable him or her to apply the knowledge of entrepreneurship in the day-to-day running of business.

*For other course descriptions of Entrepreneurship courses refer to School of Business*

## **COURSE DESCRIPTIONS FOR BUSINESS STUDIES**

*For course descriptions of Business Studies courses refer to School of Business*

## DEPARTMENT OF LANGUAGE EDUCATION

**Head of Department: Kayiwa David; MA (Lit) (CLSU), BA (Ed) (Bugema).**

### **Vision**

The Department of Language Education envisions producing professional language and literature teachers who are pace setters in their communities.

### **Mission**

The Department of Language Education aims at equipping teachers of language and literature with skills and knowledge of training learners in language skills and literature.

### **Objectives:**

The Department of Language Education seeks to:

- Widen the linguistic competence of students in grammar and vocabulary.
- Enlarge students' understanding of different literary trends and conventions.
- Develop proficiency and effectiveness in communication.
- Meet the church and global demands for language and literature teachers.
- Develop students' analytical skills to help them understand their world.
- Inculcate in the students a love for research.
- Encourage purposeful and independent reading and writing.
- Prepare students for careers in different fields of education and life; for example, writing, editing, teaching, and others.
- Help students appreciate the God-given gift of communication skills in a world of cultural diversity.
- Expose learners to different literary writers of different backgrounds in terms of origins, times and conventions.

### **Entry Requirements**

Students who enroll for a degree program need to have a degree or diploma preferably in the teaching subjects they wish to study. Alternatively, they need to have two principal passes in their Higher Advanced Certificate or its equivalent; others need to have an ordinary level certificate with C+ in the teaching subjects or its equivalent. However, students who come from countries that do not have A – Level (Advanced Level) will have to first do a Higher Certificate of Education before embarking on their degree program. And those that come from non-English speaking countries will need to first do Intensive English for a maximum of two semesters (one academic year) before doing their degree program.

### **Secondary Education Programs**

This department offers the following secondary teaching subjects:

- English Language
- Literature in English
- Kiswahili (language and literature)
- Luganda (language and literature)

### **Teaching Combinations**

A student may take the following combinations:

- English Language and Literature
- English Language and Kiswahili
- Kiswahili with any other teaching subject
- English and any other appropriate teaching subject (for non-Ugandan students)
- Luganda with any other appropriate teaching subject.



### **Career Options**

A Bachelor of Arts with Education majoring in English Language, Kiswahili, Luganda and Literature opens a wide variety of career options, some of which are:

- Language consultants
- Language researchers
- Language and literature teacher
- Translators and interpreters
- Publishers
- Editors

### **Notes Concerning Scheduling**

Courses are aligned to ensure compatibility. New students: please read carefully the instructions found at the end of this section.

### **THINGS TO NOTE**

#### **Academic Advisor/Mentor**

A student will be assigned an academic advisor who will advise him/her on academic matters. The student is advised to collaborate with the advisor. The student should not make any decision before consulting his/her advisor.

#### **Language Club**

By virtue of the subjects a student is doing, all students doing English Language, Literature in English, Kiswahili and Luganda automatically belong to two clubs; Education Club and Language Education Club. Students doing one language subject and any other from a different department belong to three clubs; the two named clubs above plus the other club of the other subject a student is doing from a different department. There is a small subscription fee the student has to pay at the beginning of every semester as club fees for each of these clubs.

#### **Other Things to Note**

- Attendance is very important in every class and assemblies. Unless a student has a genuine reason, he/she must not exempt himself/herself from any of them.
- Students should endeavor to attend all school and departmental meetings, and other general assemblies. These are the times where necessary communications are made. These meetings are normally held on Tuesday at 10:00 am. However, due to emergent issues, sometimes they are called at other times.
- Students must carefully study their bulletin. They should always refer to it whenever there is any controversial issue.
- Students should demand for a course outline from specific course instructor at the beginning of every semester.
- Students should endeavor to submit all assignments and research papers/reports etc on time.
- They should endeavor to attend church services. Nobody should be compelled to do so except the LOVE of JESUS CHRIST. REMEMBER that your life depends on HIM and your academic, social and physical life depends on HIM.
- Students should be wise in choosing friends. A good friend will always care for his/her friend's prosperity.
- The student should budget his/her time wisely. When a semester begins, the student should note that he/she has began accounting for his/her grade.
- Course work (assignments, quizzes, tests, term papers, tours, reports etc) accounts for 50% of your final grade. Final exam accounts for the other 50%.
- Language Education Department arranges for study tours to places with relevant



background knowledge of courses a student studies in classes. They are arranged in the second semester of each academic year usually in the months ranging from February to April. However, students will be informed for any changes. **Each student must attend at least one by the time he/she graduate.** The trip is attributed to BLIT 3208 Comparative Drama and all the writing courses. Students finance their transport and other costs.

- Language Education Department and School of Education hold seminars/workshops every semester. **Students are expected to attend all of them.**

## ENGLISH LANGUAGE AND LITERATURE

English Language and Literature (Degree) Course List (33 credit units). Core Courses (27 credit units) and electives (6 credit units).

### Courses Offered

#### English Language Course List 27 credit

Code	Title	LH	TH	PH	CH	CU
BENG 1101	Receptive Skills	30	30	00	45	3
BENG 1202	Foundations of Linguistics	30	30	00	45	3
BENG 2103	History of English Language	30	30	00	45	3
BENG 2104	English Grammar I	30	30	00	45	3
BENG 2205	English Grammar II	30	30	00	45	3
BENG 2206	Advanced Composition	30	00	30	45	3
BENG 2207	Speech	30	00	30	45	3
BENG 3108	Creative Writing	30	00	30	45	3
BENG 3209	Expository Writing	30	00	30	45	3

#### Electives (any 6 credits)

Code	Title	LH	TH	PH	CH	CU
BENG 3110	Descriptive Grammar	30	00	30	45	3
BENG 3211	Language Acquisition and Learning	30	30	00	45	3
BENG 3112	Contemporary English	30	30	00	45	3
BENG 3213	English for Specific Purposes	30	30	00	45	3

#### Literature Course List (27 Credits)

Code	Title	LH	TH	PH	CH	CU
BLIT 1101	Foundations of Literature	30	30	00	45	3
BLIT 1202	Poetry Appreciation & Analysis	30	30	00	45	3
BLIT 2103	Literary Criticism	30	30	00	45	3
BLIT 2104	English Literature	30	30	00	45	3
BLIT 2205	African Prose	30	30	00	45	3
BLIT 2206	Bible as Literature	30	30	00	45	3
BLIT 3107	The Novel	30	30	00	45	3
BLIT 3208	Comparative Drama	30	30	00	45	3
BLIT 3209	Shakespeare	30	30	00	45	3

#### Electives (any 6 credits)

Code	Title	LH	TH	PH	CH	CU
BLIT 2210	Literature of Uganda	30	30	00	45	3
BLIT 3111	American Literature	30	30	00	45	3
BLIT 2112	African Poetry	30	30	00	45	3
BLIT 3213	Major Literary Period	30	30	00	45	3

**Recommended Schedule**

<b>First Year</b>			<b>Semester 1</b>
GECL	1101	Introduction to Writing Skills	3
GECH	1101	Health Principles	3
GECR	1101	Christian Beliefs	3
GECC	1101	Fundamentals of Com. & Office Applications	4
BSED	1101	Educational Psychology & Human Dev't	3
BENG	1101	Receptive Skills	3
BLIT	1101	Foundations of Literature	3
<b>Total</b>			<b>22</b>

<b>First Year</b>			<b>Semester 2</b>
GECS	1202	Statistics	3
GECA	1201	Philosophy of Christian Education	3
GECV	12--	Vocational (General Requirement Course)	2
BSED	1202	Principles and Methods of Teaching	2
BSED	1203	Instructional Technology	2
BENG	1202	Foundations of Linguistics	3
BLIT	1202	Poetry Appreciation and Analysis	3
<b>Total</b>			<b>18</b>

<b>Second Year</b>			<b>Semester 1</b>
BSTM	2106	Language Teaching Methods	2
BSTM	2107	Literature Teaching Methods	2
BSED	2104	Classroom Testing and Evaluation	3
BENG	2103	History of English Language	3
BENG	2104	English Grammar I	3
BLIT	2103	Literary Criticism	3
BLIT	2104	English Literature	3
<b>Total</b>			<b>19</b>

<b>Second Year</b>			<b>Semester 2</b>
BREM	2201	Research Methods	3
BENG	2205	English Grammar II	3
BENG	2206	Advanced Composition	3
BENG	2207	Speech	3
BLIT	2205	African Prose	3
BLIT	2206	Bible as Literature	3
		Elective (Literature Course)	3
<b>Total</b>			<b>21</b>

<b>Second Year</b>			<b>Summer</b>
BSSP	2301	School Practice I	3
<b>Total</b>			<b>3</b>

<b>Third Year</b>			<b>Semester 1</b>
BREP	3102	Research Project	3
BSED	3105	Philosophy & Sociology of Education	3
BSED	3106	Communication Skills & Professional Ethics in Education	3
BSED	3107	Guidance, Counseling & Special Needs Education	3

BENG	3108	Creative Writing	3
		Elective (English Language. Course)	3
BLIT	3107	The Novel	3
		Elective (Literature Course)	3
<b>Total</b>			<b>24</b>

<b>Third Year</b>			<b>Semester 2</b>
BSED	3208	Educational Administration & Supervision OR	3
BSED	3209	Economics and Planning in Education	
BSED	3210	Comparative & History of Education	3
BSED	3211	Curriculum Principles & Development	2
BENG	3209	Expository Writing	3
		Elective (English Language Course)	3
BLIT	3208	Comparative Drama	3
BLIT	3209	Shakespeare	3
<b>Total</b>			<b>20</b>

<b>Third Year</b>		<b>Summer</b>	
BSSP	3302	School Practice II	3
<b>Total</b>			<b>3</b>

## KISWAHILI

Kiswahili (Degree) Course List (33 credit units). Core Courses (33 credit units)

<b>Kiswahili Language Course List</b>		<b>33 (3 year program) Credit Units</b>					
<b>Code</b>	<b>Title</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BKSW	1101	Kiswahili Oral Literature	30	00	30	45	3
BKSW	1202	History and Dev't of Kiswahili	30	30	00	45	3
BKSW	2103	Kiswahili Phonology	30	30	00	45	3
BKSW	2104	Kiswahili Poetry	30	00	30	45	3
BKSW	2205	Kiswahili Morphology	30	30	00	45	3
BKSW	2206	Kiswahili Novel and Play	30	30	00	45	3
BKSW	2207	Translation: Theory & Practice in Kiswahili	30	30	00	45	3
BKSW	3108	Kiswahili Syntax	30	30	00	45	3
BKSW	3109	Kiswahili & Comparative Bantu Linguistics	30	30	00	45	3
BKSW	3210	Semantics & Pragmatics in Kiswahili	30	30	00	45	3
BKSW	3211	Creative Writing in Kiswahili	30	00	30	45	3

### Recommended Schedule

<b>First Year</b>			<b>Semester 1</b>
GECL	1101	Introduction to Writing Skills	3
GECH	1101	Health Principles	3
GECR	1101	Christian Beliefs	3
GECC	1101	Fundamentals of Computers & Office Applications	4
BSED	1101	Educational Psychology & Human Dev't	3
BKSW	1101	Kiswahili Oral Literature	3
		Teaching Subject II	3
<b>Total</b>			<b>22</b>

<b>First Year</b>		<b>Semester 2</b>	
GECS	1202	Statistics	3
GECA	1201	Philosophy of Christian Education	3
GECV	12--	Vocational (General Requirement Course)	2
BSED	1202	Principles and Methods of Teaching	2
BSED	1203	Instructional Technology	2
BKSW	1202	History and Development of Kiswahili	3
		Teaching Subject II	3
<b>Total</b>			<b>18</b>
<b>Year 2</b>		<b>Semester 1</b>	
BSTM	2106	Language Teaching Methods	2
BSTM	2107	Literature Teaching Methods	2
BSED	2104	Classroom Testing and Evaluation	3
BKSW	2103	Kiswahili Phonology	3
BKSW	2104	Kiswahili Poetry	3
		Teaching Subject II	6
<b>Total</b>			<b>19</b>
<b>Second Year</b>		<b>Semester 2</b>	
BREM	2201	Research Methods	3
BKSW	2205	Kiswahili Morphology	3
BKSW	2206	Kiswahili Novel and Play	3
BKSW	2207	Translation: Theory and Practice in Kiswahili	3
		Teaching Subject II	9
<b>Total</b>			<b>21</b>
<b>Second Year</b>		<b>Summer</b>	
BSSP	2301	School Practice I	3
<b>Total</b>			<b>3</b>
<b>Third Year</b>		<b>Semester 1</b>	
BREP	3102	Research Project	3
BSED	3105	Philosophy & Sociology of Education	3
BSED	3106	Communication Skills & Professional Ethics in Education	3
BSED	3107	Guidance, Counseling & Special Needs Education	3
BKSW	3108	Kiswahili Syntax	3
BKSW	3109	Kiswahili and Comparative Bantu Linguistics	3
		Teaching Subject II	6
<b>Total</b>			<b>24</b>
<b>Third Year</b>		<b>Semester 2</b>	
BSED	3208	Educational Admin. & Supervision OR	3
BSED	3209	Economics and Planning in Education	3
BSED	3210	Comparative & History of Education	3
BSED	3211	Curriculum Principles & Development	2
BKSW	3210	Semantics and Pragmatics in Kiswahili	3
BKSW	3211	Creative Writing in Kiswahili	3
		Teaching Subject II	6
<b>Total</b>			<b>20</b>
<b>Third Year</b>		<b>Summer</b>	
BSSP	3302	School Practice II	3
<b>Total</b>			<b>3</b>

## LUGANDA

Luganda Language (Degree) Course List (33 credit units) Core Courses (27 credit units); Elective Courses (6 credit units)

### Luganda Language Course List 27 Credit Units

Code	Title	LH	TH	PH	CH	CU
BLUG 1101	Luganda Oral Literature and Poetry	30	30	00	45	3
BLUG 1202	Luganda Orthography	30	30	00	45	3
BLUG 2103	Luganda Ethnography	30	30	00	45	3
BLUG 2104	History and Dev't of Luganda	30	30	00	45	3
BLUG 2205	Luganda Phonetics and Phonology	30	30	00	45	3
BLUG 2206	Translation & Interpretation in Luganda	30	00	30	45	3
BLUG 2207	Luganda Syntax and Morphology	30	30	00	45	3
BLUG 3108	Luganda Prose and Drama	30	30	00	45	3
BLUG 3209	Creative Writing in Luganda	30	00	30	45	3

### Electives (any 6 credits)

Code	Title	LH	TH	PH	CH	CU
BLUG 3110	Luganda Stylistics	30	30	00	45	3
BLUG 3111	Luganda and the Media	30	30	00	45	3
BLUG 3212	Luganda for Specialized Purposes	30	30	00	45	3
BLUG 3113	Editing and Publishing in Luganda	30	30	00	45	3
BLUG 3214	Luganda Lexicography	30	30	00	45	3

### Recommended Schedule

First Year		Semester 1
GECL 1101	Introduction to Writing Skills	3
GECH 1101	Health Principles	3
GECR 1101	Christian Beliefs	3
GECC 1101	Fundamentals of Com. & Office Applications	4
BSED 1101	Educational Psychology & Human Dev't	3
BLUG 1101	Luganda Oral Literature and Poetry	3
	Teaching Subject II	3
<b>Total</b>		<b>22</b>
First Year		Semester 2
GECS 1202	Statistics	3
GECA 1201	Philosophy of Christian Education	3
GECV 12--	Vocational (General Requirement Course)	2
BSED 1202	Principles and Methods of Teaching	2
BSED 1203	Instructional Technology	2
BLUG 1202	Luganda Orthography	3
	Teaching Subject II	3
<b>Total</b>		<b>18</b>
Second Year		Semester 1
BSTM 2106	Language Teaching Methods	2
BSTM 2107	Literature Teaching Methods	2
BSED 2104	Classroom Testing and Evaluation	3

BLUG	2103	Luganda Ethnography	3
BLUG	2104	History and Development of Luganda Teaching Subject II	3 6
<b>Total</b>			<b>19</b>
<b>Second Year</b>			<b>Semester 2</b>
BREM	2201	Research Methods	3
BLUG	2205	Luganda Phonetics and Phonology	3
BLUG	2206	Translation and Interpretation in Luganda	3
BLUG	2207	Luganda Syntax and Morphology Teaching Subject II	3 9
<b>Total</b>			<b>21</b>
<b>Second Year</b>			<b>Summer</b>
BSSP	2301	School Practice I (8 weeks)	3
<b>Total</b>			<b>3</b>
<b>Third Year</b>			<b>Semester 1</b>
BREP	3102	Research Project	3
BSED	3105	Philosophy & Sociology of Education	3
BSED	3106	Communication Skills & Professional Ethics in Educ.	3
BSED	3107	Guidance, Counseling & Special Needs Education	3
BLUG	3108	Luganda Prose and Drama Elective (Luganda Language Course) Teaching Subject II	3 3 6
<b>Total</b>			<b>24</b>
<b>Third Year</b>			<b>Semester 2</b>
BSED	3208	Educational Administration & Supervision OR	3
BSED	3209	Economics and Planning in Education	3
BSED	3210	Comparative & History of Education	3
BSED	3211	Curriculum Principles & Development	2
BLUG	3209	Creative Writing in Luganda Elective (Luganda Language Course) Teaching Subject II	3 3 6
<b>Total</b>			<b>20</b>
<b>Third Year</b>			<b>Summer</b>
BSSP	3302	School Practice II	3
<b>Total</b>			<b>3</b>

## COURSE DESCRIPTION

### ENGLISH LANGUAGE COURSES

#### **GECL 1101 Introduction to Writing Skills**

This course is designed to help students develop basic writing skills; four kinds of approaches to composition will be taught: descriptive, narrative, expository, and argumentative. Other topics will include: parts of a sentence, sentence errors, punctuations, searching for information, documenting sources and preparing a manuscript. Students will get hands-on experience in writing reports and compositions and will be required to write a well-documented research paper using APA style.

#### **BENG 1101 Receptive Skills**

This course deals with the two receptive skills: reading and listening. It is intended to develop in the student a critical appreciation of the written word. Students will be advised on effective reading habits and encouraged to set personal reading goals as well as develop personal reading plans. As a concomitant to critical reading, students will learn to write reviews and critiques of written material. On the listening side, the course is designed to help students become aware of the skills of receiving and understanding language and other types of information. Students will have the opportunity to interpret verbal messages. They will also be introduced to different listening occasions. Assessment for this course will be based mainly on such reviews and critiques, and the achievement of the personal reading goals.

#### **BENG 1202 Foundations of Linguistics**

This course is intended to introduce students to the study of linguistics – a study of languages. It provides an introduction to various aspects of language like phonology, morphology, syntax and others. It further provides an introduction to the scientific study of human languages, concentrating on the similarities and differences of the languages of the world. In addition, students will examine and explore the properties of human language that make it unique; and that make it uniquely powerful in studying the human mind. They will be searching for answers to questions like ‘what does someone know when he knows a language?’ and ‘how does he get that knowledge?’

#### **BENG 2103 History of English Language**

This course is intended to give an overview of the history of the English language. Topics to be covered include: a brief look into the origin of English language; language Families to which English belongs; the development of English: Old English, Middle English, Modern English; and contemporary trends in English as an international language.

#### **BENG 2104 English Grammar I**

##### **Prerequisite Pass with C in GECL 1101**

This course is an introductory study to the grammar of English. Students will be introduced to the word classes in English and their functionality in syntactic structures. Much time will be devoted to sentence analysis using traditional grammar diagrams. Emphasis will be placed on simple sentences.

#### **BENG 2205 English Grammar II**

##### **Prerequisite: Pass with D+ in BENG 2104**

This is a continuation of English Grammar I. The focus will be on syntax error analysis. The student will devote himself/herself to vocabulary development, spelling, punctuation, and general grammatical propriety in both oral and written communication. Diagramming will focus on compound, complex and compound complex sentences.

### **BENG 2206 Advanced Composition**

#### **Prerequisite Pass with C in GECL 1101**

This course will help the student to develop advanced techniques of effective writing. Clarity, coherence, unity of thought, grammatical correctness, and Standard English usage in different forms of writing will be emphasized in the study. The student will submit well-documented writing assignments for advice and grading.

### **BENG 2207 Speech**

This course is designed to develop in the student a mastery of oral communication skills as a prerequisite to effective interpersonal and public speaking. Some of the salient features of this course include: articulation, group dynamics, and speech making.

### **BENG 3108 Creative Writing**

#### **Prerequisite D+ in BENG 2206**

This course is designed to help students gain skills in writing short stories, articles, plays and poems. Special emphasis will be placed on writing narratives and dialogues, scenes, transitions, characterization and viewpoints. Students will be involved in intensive writing practice that will be interspersed with instruction and analysis of both fictional and rhetorical techniques employed by contemporary writers in selected works.

### **BENG 3209 Expository Writing**

#### **Prerequisite: D+ in BENG 2206**

This course is designed to help students gain skills in developing exposition. They will learn the techniques of writing formal essays, book reviews, critical analyses, and other forms of writing. The course is also designed to help the student acquire the techniques of answering essay examination questions.

### **BENG 3110 Descriptive Grammar**

#### **Prerequisite Pass with D+ in BENG 2205**

This is a detailed study of the descriptive grammar of language. Special emphasis will be placed on transformational grammar. Students will learn sentence analysis using tree diagrams to demonstrate their understanding of deep structure as well as surface structure of simple and embedded sentences.

### **BENG 3211 Language Acquisition and Learning**

This is an exploration of theories and stages in first language acquisition and the phonological, morphological, syntactic, and semantic issues in the learner's acquisition of language with special focus on Luganda and English.

### **BENG 3112 Contemporary English**

The dynamics of present-day English will be the focus of this course. As a starting point, students will learn the characteristics of the 'traditional' native English dialects. These will then be juxtaposed with the 'New Englishes'. Ultimately, students in this course will seek to acknowledge, comprehend, and appreciate the emerging global 'Englishism'.

### **BENG 3213 English for Specific Purposes**

This course aims at giving students an opportunity to practice the skills used in writing business letters, applications, curriculum vitae, proposals, reports, minutes, and personal portfolios. In addition, students will be exposed to the English spoken in different fora; for example, in parliament, at the courts, in the supermarket, at church, and on the street. A study tour is an integral part of this course.



## LITERATURE COURSES

### **BLIT 1101 Foundations of Literature**

This course introduces students to African, American, Asian and English literature. It examines common literary concepts and terms and their identification in selected works. The value of literature; classical views on literature; an introduction to literary criticism; and an analysis of various genres will be covered.

### **BLIT 1202 Poetry Appreciation and Analysis**

This course is intended to arouse in the learner a critical appreciation of poetry through analysis of the thematic and stylistic aspects of selected poems. Focus will be placed on areas like poetry genres, patterns of sounds, rhythm and meter, structure, mood and tone, attitude and other important styles that can be found in a poem. Students will do wide reading, analysis and discussion of various poems in and out of the class plus writing assignments and exams.

### **BLIT 2103 Literary Criticism**

This course is an introduction to literary theory and criticism. Students will be introduced to seminal and influential literary critical statements from the classical period to contemporary critical thoughts. The course aims at promoting the student's critical awareness and capacity by exposing them to various critical views and approaches. Some literary texts will be analyzed in line with some literary theories.

### **BLIT 2104 English Literature**

This course is mainly a survey of the literature of England. Students are exposed to the political, social, economic, and religious life of England from Anglo-Saxon period to the twentieth century and how they relate to the development of English literature. Samples of major authors and their works in each period will be studied.

### **BLIT 2205 African Prose**

This is a comprehensive thematically organized study featuring various texts and approaches from different perspectives and eras. Selected literary prose texts from different African sub-regions will be closely studied and analyzed, with an in-depth study of East African prose literature and its cultural uniqueness.

### **BLIT 2206 Bible as Literature**

In this course, students are introduced to the study of the Bible from a literary viewpoint. A brief study of the Hebrew and Greek as a people will aid the students' understanding of the challenges in Bible translation. An in-depth literary study of each of the books of the Bible will be done.

### **BLIT 3107 The Novel**

This course is intended to introduce the novel as a distinct literary genre; the course will focus on elements of the novel and its development. Selected novels with varying literary styles and from different geographical regions and periods will be studied. Emphasis will be placed on cultural uniqueness of the selected novels.

### **BLIT 3208 Comparative Drama**

Comparative Drama examines the relationship between different dramatic practices across selected periods and continents. Major emphasis is put on critical cross-examination of technical innovations in theatre aesthetics from classical tradition to modern tragedy. The course examines the socio-political and historical precepts that gave rise to different perspectives in drama. A comparative analysis of African, Caribbean, and European theatres will be done.

### **BLIT 3209 Shakespeare**

A course in Shakespeare is designed to acquaint students with Shakespeare as the English literary genius. A study of the conventions of his time will help the students understand Shakespeare's works better. Selected works from his complete works will be extensively studied.

### **BLIT 2210 Literature of Uganda**

This course is designed to expose students to the history and current trends in Ugandan literature. Factors that influence the themes and the styles of Ugandan authors will be examined. Selected authors and texts in all genres from the representative regions will be studied and analyzed.

### **BLIT 3111 American Literature**

In this course, a survey of American literary works from its beginning to the contemporary age is done. The American Revolution and its dominant influence on literary development are examined, and selected works of American authors including those of Afro-American background are studied.

### **BLIT 2112 African Poetry**

This course is designed to give students an in-depth study of African poetry. The study will include poetry from oral beginnings to modern times. Selections from different sub-regions in Africa will be analyzed.

### **BLIT 3213 Major Literary Period**

A study of any given literary period of any given part of the world will be discussed in this course. Students will study the characteristics of the period; factors that influenced the writings in the period; and works of selected authors in that period.

## **KISWAHILI COURSES**

### **BKSW 1101 Kiswahili Oral Literature**

This course will take a multi-disciplinary approach to Kiswahili oral literature and is intended for students who want to pursue the study of oral literature further. This course is basically devoted to the oral literature forms, which include types of stories, dramas and oral poetry.

### **BKSW 1202 History and Development of Kiswahili**

This course introduces students to the history, growth and spread of Kiswahili from the pre-colonial times to the present. The course attempts to re-examine and re-state the relations between Kiswahili and Bantu languages; and Kiswahili and non-Bantu languages.

### **BKSW 2103 Kiswahili Phonology**

This course handles sound systems of Kiswahili structure, sound alternations, types of phonemes and how they are realized, the relation between the spoken and written forms of Kiswahili, types of phonological relations, syllables and syllable structures.

### **BKSW 2104 Kiswahili Poetry**

The course will make an in-depth study of Kiswahili poetry, tracing its historical development as a genre, discussing and interpreting influences, trends and ideological formations while considering the universal, essential elements of poetry. The course will also examine how Kiswahili poetry has been used to the service of society.

### **BKSW 2205 Kiswahili Morphology**

The course is intended to equip students with skills required to analyze the structure of Kiswahili words. Basic morphological concepts such as morpheme, allomorph, root, stem and affixes will be looked at. The course also looks at word formation processes in Kiswahili: inflection and derivation.

### **BKSW 2206 Kiswahili Novel and Play**

The course provides an in-depth study of the Kiswahili novel and drama. It traces their historical development as Kiswahili literary genres. The course involves the reading and analysis of Kiswahili novels and plays. At the same time it looks at the essential elements of their fiction. A comprehensive and historical study of Kiswahili plays and playwrights such as Said A. Mohammed, Ali Mazrui, E. Hussein, etc. will be done. Concepts such as content, form and themes in Kiswahili drama will be looked at.

### **BKSW 2207 Translation: Theory and Practice in Kiswahili**

This is course designed to equip students with the concepts, theories and techniques of translation. Students will learn the skills needed for the production of translated texts involving Kiswahili.

### **BKSW 3108 Kiswahili Syntax**

The course examines the structure of Kiswahili sentences. It discusses sentence constituents in Kiswahili: the phrase and the clause. Kiswahili sentence types will also be examined. Students will be exposed to the ways of representing sentences and sentence constituents e.g. using tree diagrams.

### **BKSW 3109 Kiswahili and Comparative Bantu Linguistics**

The course looks at the comparison of Kiswahili and other Bantu languages with the aim of getting more insights into the lexicon and structure of Kiswahili. It considers the attempts of various linguists to describe and classify Bantu languages as well as the reconstruction of proto Bantu vis avis Kiswahili.

### **BKSW 3210 Semantics and Pragmatics in Kiswahili**

The aim of the course is to introduce students to the main issues in Kiswahili semantics and pragmatics. It equips students with an ability to analyze and discuss Kiswahili usage and the forces or factors that determine the message form. It will involve a detailed functional analysis of texts, including the ways in which texts are packaged as messages, the factors involved in the production and interpretation of discourse, and some of the models that have been suggested in explaining these processes.

### **BKSW 3211 Creative Writing in Kiswahili**

This course exposes students to the art of writing poems, short stories, plays, novels, etc. Students are expected to compose their own works, as part of course assessment.

## **LUGANDA LANGUAGE COURSES**

### **BLUG 1101 Luganda Oral Literature and Poetry**

This course is designed to introduce students to Luganda oral literature and written poetry. It begins by identifying the different genres Luganda oral literature has. Then it examines some theories and methods applied to oral art forms of the Baganda. Each student will choose a particular collection of narratives and analyze them. They will then appreciate the wisdom of Baganda forefathers. In poetry, students will study various Luganda written poems.

### **BLUG 1202 Luganda Orthography**

This course develops grammatical aspects of the Luganda language. It brings out Luganda spelling systems with emphasis on spelling issues, challenges involved with orthography of Luganda and basic linguistic concepts in relation to writing systems.

### **BLUG 2103 Luganda Ethnography**

Luganda ethnography focuses on analyzing and understanding the culture of the Baganda which makes them to be a peculiar people. Students will learn the different customary practices, norms and values that belong/belonged to the Baganda. Language, origin of idioms and proverbs and origin of several names will be part of the study.

### **BLUG 2104 History and Development of Luganda**

This course gives a brief historical background of the Luganda Language. It also compares Luganda with other Bantu languages across Africa. Students will examine the factors responsible for Luganda's current situation; answer questions of who has contributed to the development of Luganda; and an exposure to the factors responsible for the development of Luganda.

### **BLUG 2205 Luganda Phonetics and Phonology**

This is a theoretical course with a strong practical component. Great importance is placed on providing students with a theoretical basis that allows them to understand, internalize and describe the phonological systems of Luganda as it manifests itself in speech. An understanding of how one's phonological background enables them to learn a second language is handled here. Students will study the phonetic symbols and be able to transcribe Luganda words.

### **BLUG 2206 Translation and Interpretation in Luganda**

The course aims at introducing students to the theory and practice of translation. Issues such as the need for translation, the truly qualified translator and the basic aspects of a good translation are tackled. The translatability of different texts is addressed on both the theoretical and practical levels. Special cultural, linguistic and technical problems encountering the translators are discussed and solutions to such problems are suggested.

### **BLUG 2207 Luganda Syntax and Morphology**

This course is a combination of two areas; Luganda syntax and Luganda morphology. In it, students will study features of Luganda sentence structures. Topics will include the position of the finite and non-finite verb, the formation of questions and relative clauses, different types of subject verb inversion, quantifier floating and the position of subjects, the behaviour of pronouns, imperative and causative constructions etc. in morphology, students will analysis of word structures. They will learn about Luganda morphology and practice morphological analysis on different data sets. Key concepts covered include word, inflection and derivation, noun class system, case marking, agreement and concord, morpheme classes, phrase structure, word order, grammatical functions and relationships. Students will be encouraged to apply and evaluate morphological theories onto Luganda data.

### **BLUG 3108 Luganda Prose and Drama**

In this course students will explore various Luganda short stories, novels and plays. A selected intensive and critical study of selected works in Luganda novel and play will be done. Aspects of story like analysis of plot and development, characterization, dramatic techniques, language techniques will be done. They will also learn to translate prose and plays from other languages to Luganda.

### **BLUG 3209 Creative Writing in Luganda**

In this course students will be exposed to the art of writing poems, short stories, plays, novels, etc in Luganda. Students are expected to compose their own works, as part of course assessment.

### **BLUG 3110 Luganda Stylistics**

This course concentrates on the linguistic study of non-literary works including speech presentation, media, advertising and slogans. This course focuses on the application of linguistic knowledge to the study of style and communication. The course further covers the expressive resources of the language and style as manifested in Luganda grammar. Theories of functional styles are analyzed and applied to Luganda.

### **BLUG 3111 Luganda and the Media**

This course looks at the different media available. Students will learn on the print and electronic media. They will survey how Luganda is used in these media. They will be required to prepare some presentations for any of these. Visiting some media houses may be required.

### **BLUG 3212 Luganda for Specialized Purposes**

This course focuses on distinguishing between Language for general purpose and language for special purposes. Students will learn skills of applying Luganda to specialized fields of communication like law, parliamentary or legislative language, medicine, scientific language etc.

### **BLUG 3113 Editing and Publishing in Luganda**

In this course, students will be introduced to the world of editing and publishing. This course is an overview for those interested in both print and electronic media and introduces the participants to a range of skills needed by interactive writers and editors, including content research and development. Through lectures, examples, computer lab work and take-home assignments, students will use skills learnt in other courses to learn to write and edit material for publication in books, magazines, the web, newspapers, fliers, brochures etc.

### **BLUG 3214 Luganda Lexicography**

This is a course that introduces students to the study of the lexicon – words within a language; their structures and analysis of their meaning, the relations that exist between them and the categories in which they fall. The course attempts to trace the history of lexicography and zeroes in on Bantu lexicography, and finally Luganda lexicography. Finally students are equipped with the skills of compiling dictionaries by taking them through the entire dictionary writing process. They are also equipped with skills of evaluating dictionaries compiled by other lexicographers.

## DEPARTMENT OF SCIENCE EDUCATION

**Ag. Head of Department: Magoola Abel;** MSc (Chem. Ed) (CLSU, Philippines), BSc (Ed) (Bugema)

### Background

The Department of Science Education is among the three departments under the School of Education in Bugema University. Bugema University started to offer Science subjects in the academic year 2002/03. The program aimed at preparing science teachers at diploma level. The subjects offered included: Biology, Chemistry, Physics, Mathematics, and Computer Science.

In the academic year 2004/05 a degree program was introduced with the following subjects being offered: Biology, Chemistry, Agriculture, Mathematics, and Computer Science (which was later named ICT). The Science unit was started officially in 2005 which was referred to as a Sub-department under the Department of Education. In 2009 the sub-department was fully recognized as a department under the School of Education. Currently, the department offers Physics together with the subjects mentioned earlier, resulting to the award of Bachelor of Science with Education degree for both secondary and primary teachers. The proposal here submitted covers Bachelor of Science with Education (BSc(Ed) – Secondary options.

### Justification

The department was put in place to provide opportunity to the individual aspiring to become science teachers in a holistic framework. The program was aimed especially for young people who qualify for university studies but remain unabsorbed for one reason or another to government institution, also to attract students from the region and neighboring countries. With the basic facility, the department aimed at producing qualified teachers of science that will be able to offer quality education to the society with uncompromised integrity. The program is essential for Uganda, region and world at large because students graduating in the Department of Science Education will be able to handle science courses in both O and A-level.

### Mission:

To inspire lifelong learning, advance knowledge, and strengthen communities

### Vision

Excelling in graduating God fearing professionals in the area of Science Education.

### Program Objectives

The Department of Science Education seeks:

- To unfold the mysteries contained in the world of nature.
- To prepare and produce educators and scientists who are capable of utilizing the resources contained in and around the earth for the betterment of the society.
- To prepare educators and scientists who will stand for the biblical and scientific truth.

- To prepare students who will be able to work independently in scientific research.
- To prepare students who will be able to pursue further education.

### **Career Opportunities**

A student who graduates from the Department of Science Education will primarily seek career opportunities in teaching. However, the well branded program will allow graduates from the department to find jobs in other fields such as agriculture, metallurgy, textiles, pharmaceuticals and research.

### **Secondary Education Programs**

This department offers the following secondary teaching subjects: Agriculture, Biology, Chemistry, Mathematics, Physics and Information Technology

### **Subject Combinations**

**A student may take the following combinations:**

- Agriculture (Double Major)
- Agriculture and Biology
- Agriculture and Entrepreneurship
- Agriculture and Geography
- Chemistry and Biology
- Chemistry and Physics
- Chemistry and Mathematics
- Mathematics and Physics
- Mathematics and ICT
- Mathematics and Economics
- Mathematics and Entrepreneurship
- Mathematics and Geography
- ICT and Physics

### **Career Opportunities**

- Teaching
- Educational administrator and manager
- Curriculum designing
- Researching

## SECONDARY EDUCATION

The Department of Science Education, offers professional education course. These courses are to be taken by all those who wish to study Bachelor of Science with Education.

### Professional Education Courses (27 Credit Units)

Code	Title	LH	TH	PH	CH	CU
BSED 1101	Educ. Psychology & Human Dev't	30	30	00	45	3
BSED 1202	Principles and methods of teaching	30	00	00	30	2
BSED 1203	Instructional technology	30	00	00	30	2
BSED 2104	Classroom Testing and Evaluation	30	30	00	45	3
BSED 3105	Philosophy & Sociology of Education	30	30	00	45	3
BSED 3106	Communication Skills & Professional Ethics in Education	30	30	00	45	3
BSED 3107	Guidance, Counselling & Special Needs Education	30	30	00	45	3
BSED 3208	Educational Administration and Supervision OR	30	30	00	45	3
BSED 3209	Economics & Planning in Education	30	30	00	45	3
BSED 3210	Comparative & History of Education	30	30	00	45	3
BSED 3211	Curriculum Principles and Dev't	30	00	00	30	2

### Teaching Methods (any 4 Credit Units as applicable)

Code	Title	LH	TH	PH	CH	CU
BSTA 2101	Economics Teaching Methods	30	00	00	30	2
BSTA 2102	Geography teaching methods	30	00	00	30	2
BSTA 2105	Entrepreneurship Teaching Methods	30	00	00	30	2
BSTS 2101	Biology Teaching Methods	30	00	00	30	2
BSTS 2102	Chemistry Teaching Methods	30	00	00	30	2
BSTS 2103	Agriculture Teaching Methods	30	00	00	30	2
BSTS 2104	ICT Teaching Methods	30	00	00	30	2
BSTS 2105	Mathematics Teaching Method	30	00	00	30	2
BSTS 2106	Physics Teaching Methods	30	00	00	30	2

### Research (6 Credit Units)

Code	Name	LH	TH	PH	CH	CU
BREM 2201	Research Methods	30	00	30	45	3
BREP 3102	Research Project	00	00	90	45	3

### School Practice (6 Credit Units)

Code	Name	LH	TH	PH	CH	CU
BSSP 2301	School Practice I	00	00	90	45	3
BSSP 3302	School Practice II	00	00	90	45	3



**BACHELOR OF SCIENCE WITH EDUCATION****A: Agriculture (Double Main) (74 credit units)**

Code	Title	LH	TH	PH	CH	CU
BSGR 1101	Principles of Crop Science & Agronomy	30	00	00	30	2
BSGR 1102	Special Project in Crop Science	00	00	30	15	1
BSGR 1103	Mathematics for agriculturalists	30	00	00	30	2
BSGR 1104	Principles of Genetics	30	00	00	30	2
BSGR 1205	Principles of Soil Science	30	00	00	30	2
BSGR 1206	Agricultural Botany & Plant Physiology	30	00	30	45	3
BSGR 1207	Seed Science & Technology	30	00	30	45	3
BSGR 1208	Principles of Biochemistry	30	00	00	30	2
BSGR 2109	Physiology of Farm Animals	30	30	00	45	3
BSGR 2110	Special Project in Animal Science	00	00	30	15	1
BSGR 2111	Soil Conservation. & Land Reclamation	30	30	00	45	3
BSGR 2112	Agricultural Zoology & Microbiology	30	30	00	45	3
BSGR 2113	Fundamentals of Crop Protection	30	30	00	45	3
BSGR 2114	Sustainable Agriculture	30	00	00	30	2
BSGR 2215	Animal Nutrition	30	30	00	45	3
BSGR 2216	Livestock Production Systems & Mgt	30	30	00	45	3
BSGR 2217	Soil Fertility and Plant Nutrition	30	30	00	45	3
BSGR 2218	Crop protection	30	30	00	45	3
BSGR 2219	Farm Power and Machinery	30	30	00	45	3
BSGR 2220	Special Projects in Machinery & Engineering	00	00	30	15	1
BSGR 3121	Poultry Production	30	00	00	30	2
BSGR 3122	Pasture Agronomy & Agroforestry	30	30	00	45	3
BSGR 3123	Plant Biotechnology	30	30	00	45	3
BSGR 3124	Animal Improvement and Health	30	30	00	45	3
BSGR 3225	Agricultural Economics, Farm Management & Accounting	30	30	00	45	3
BSGR 3226	Post-Harvest Handling & Technology	30	00	00	30	2
BSGR 3227	Principles of Plant Breeding and Crop Improvement	30	00	00	30	2
BSGR 3228	Farm Structures and Buildings	30	30	00	45	3
BSGR 3229	Introduction to Microeconomics	30	30	00	30	2

**Cognates (03 Credits)**

Code	Title	LH	TH	PH	CH	CU
BSBI 2211	Biostatistics	30	30	00	45	3

**B: Agriculture (Single Major) [36 credits]**

Code	Title	LH	TH	PH	CH	CU
BSGR 1101	Principles of Crop Science & Agronomy	30	00	00	30	2
BSGR 1102	Special Project in Crop Science	00	00	30	15	1
BSGR 1205	Principles of Soil Science	30	00	00	30	2
BSGR 1208	Principles of Biochemistry	30	00	00	30	2
BSGR 2109	Physiology of Farm Animals	30	30	00	45	3

BSGR	2110	Special Project in Animal Science	00	00	30	15	1
BSGR	2113	Fundamentals of Crop Protection	30	30	00	45	3
BSGR	2215	Animal Nutrition	30	30	00	45	3
BSGR	2216	Livestock Production Systems & Mgt	30	30	00	45	3
BSGR	2219	Farm Power and Machinery	30	30	00	45	3
BSGR	2220	Special Projects in Machinery & Engineering	00	00	30	15	1
BSGR	3121	Poultry Production	30	00	00	30	2
BSGR	3124	Animal Improvement and Health	30	30	00	45	3
BSGR	3225	Agricultural Economics, Farm Management & Accounting	30	30	00	45	3
BSGR	3226	Post-Harvest Handling & Technology	30	00	00	30	2
BSGR	3227	Principles of Plant Breeding and Crop Improvement	30	00	00	30	2

**C. Biology: [36 credits]**

Code	Title	LH	TH	PH	CH	CU	
BSBI	1101	Cell and Molecular Biology	30	30	00	45	3
BSBI	1202	General Techniques in Biology & Microscopy Practical	00	00	30	15	1
BSBI	1203	Plant Diversity, Forms & Biosystematics	30	30	00	45	3
BSBI	1204	Invertebrate Zoology	30	00	00	30	2
BSBI	2105	Animal Forms, Histology & Dev't	30	30	00	45	3
BSBI	2106	Principles of Microbiology & Immunology	30	30	00	45	3
BSBI	2107	Enzymology & Biochemical Practical	00	00	30	15	1
BSBI	2208	Anatomy and Physiology Practical	00	00	30	15	1
BSBI	2209	Plant Physiology & Development	30	30	00	45	3
BSBI	2210	Animal Physiology	30	30	00	45	3
BSBI	2211	Biostatistics	30	30	00	45	3
BSBI	3112	Genetics	30	00	00	30	2
BSBI	3113	Ecology & Evolution	30	60	00	60	4
BSBI	3214	Entomology & Parasitology	30	00	00	30	2

**Electives (02 Credit Units)**

Code	Title	LH	TH	PH	CH	CU	
BSBI	3215	Field Biology of East Africa	30	00	00	30	2
BSBI	3216	General Mycology and Phycology	30	00	00	30	2
BSBI	3217	Environmental Issues	30	00	00	30	2
BSBI	3218	Freshwater Biology	30	00	00	30	2
BSBI	3219	Mammalogy	30	00	00	30	2

**D: Chemistry [36 Credit Units]**

Code	Title	LH	TH	PH	CH	CU	
BSCH	1101	Basic Physical Chemistry	30	30	00	45	3
BSCH	1202	Basic Inorganic Chemistry	30	00	00	30	2
BSCH	1203	Basic Organic Chemistry	30	30	00	45	3
BSCH	2104	Bonding & Periodicity	30	00	00	45	2
BSCH	2105	Analytical Chemistry	30	30	00	30	3
BSCH	2106	Polyfunctional Aliphatics	30	00	00	30	2
BSCH	2207	Chemical Thermodynamics	30	30	00	45	3

BSCH	2208	Chemical Kinetics	30	00	00	30	2
BSCH	2209	Aromatic Chemistry	30	30	00	45	3
BSCH	2210	Physical Chemistry Practical	00	00	30	15	1
BSCH	3111	Transition Metal & Nuclear Chemistry	30	00	00	30	2
BSCH	3112	Inorganic Chemistry Practical	00	00	30	15	1
BSCH	3217	Organic Spectroscopy	30	30	00	45	3
BSCH	3218	Organic Chemistry Practical	00	00	30	15	1
BSCH	3219	Protein and Sugar Chemistry	30	30	00	45	3

**Elective (02 Credit Units)**

Code	Title	LH	TH	PH	CH	CU	
BSCH	3113	Polymer Chemistry	30	00	00	30	2
BSCH	3114	Colloidal Chemistry	30	00	00	30	2
BSCH	3115	Medicinal Chemistry	30	00	00	30	2
BSCH	3116	Environmental Chemistry	30	00	00	30	2

**E. Physics [36 Credit Units]**

Code	Title	LH	TH	PH	CH	CU	
BSPY	1101	Mathematical Physics	30	30	00	45	3
BSPY	1102	Physics Practical I	00	00	30	15	1
BSPY	1203	Properties of Matter, Heat & Thermodynamics	30	30	00	45	3
BSPY	1204	Electricity & Magnetism	30	30	00	45	3
BSPY	2105	Classical Mechanics	30	30	00	45	3
BSPY	2106	Solid State Physics	30	30	00	45	3
BSPY	2207	Wave & Optics	30	00	00	30	2
BSPY	2208	Geophysics	30	30	00	45	3
BSPY	2209	Physics Practical II	00	00	30	15	1
BSPY	2210	Statistical Physics	30	30	00	45	3
BSPY	3111	Electromagnetism	30	30	00	45	3
BSPY	3112	Physics Practical III	00	00	30	15	1
BSPY	3113	Electronics	30	00	00	30	2
BSPY	3214	Quantum Mechanics	30	30	00	45	3

**Electives (02 Credit Units)**

Code	Title	LH	TH	PH	CH	CU	
BSPY	3215	Nuclear Physics	30	00	00	30	2
BSPY	3216	Space Physics	30	00	00	30	2
BSPY	3217	Elements of Environmental Physics	30	00	00	30	2
BSPY	3218	Solar Energy Physics	30	00	00	30	2
BSPY	3219	Computer Programming in Physics	30	00	00	30	2
BSPY	3220	Elements of Astronomy & Astrophysics	30	00	00	30	2

**G. Mathematics [36 Credit Units]**

Code	Title	LH	TH	PH	CH	CU	
BSMT	1101	Calculus I	30	30	00	45	3
BSMT	1202	Linear Algebra	30	00	00	30	2
BSMT	1203	Calculus II	30	00	00	30	2
BSMT	2104	Elements of Probability & Statistics	30	00	00	30	2
BSMT	2105	Real Analysis I	30	30	00	45	3

BSMT	2106	Differential Equations I	30	30	00	45	3
BSMT	2207	Classical Mechanics	30	30	00	45	3
BSMT	2208	Probability Theory	30	30	00	45	3
BSMT	2209	Numerical Analysis 1	30	30	00	45	3
BSMT	3110	Complex Variables	30	30	00	45	3
BSMT	3111	Abstract Algebra	30	30	00	45	3
BSMT	3212	Differential Equations II	30	30	00	45	3
BSMT	3213	Numerical Analysis II	30	30	00	45	3

**H: Information & Computer Technology (ICT) [36 Credit Units]**

Code	Title	LH	TH	PH	CH	CU	
BBCT	1111	Fundamentals of relational data base systems	30	30	00	45	3
BSCT	1222	Programming using VB.Net	30	30	00	45	3
BBCT	2131	Systems Analysis and Design	30	30	00	45	3
BBCT	1151	Fundamentals of Web Development	30	30	00	45	3
BBCT	1232	Multimedia Systems	30	30	00	45	3
BBCT	1212	Information Systems	30	30	00	45	3
BBCT	2212	Internet and Web programming	30	30	00	45	3
BBCT	3121	Simulation and Modelling	30	30	00	45	3
BSCT	1121	Programming Concept Using C	30	30	00	45	3
BNCT	2222	Network and information security	30	30	00	45	3
BNCT	3232	PC Hardware Repair & Maintenance	30	30	00	45	3
BNCT	2212	Computer Network & Data Communication	30	30	00	45	3

**Recommended Schedules for Subject Combinations Mathematics and Physics****First Year: Semester I**

Course Code	Course Title	CU	
GECH	1101	Health Principles	3
GECC	1101	Fundamentals of Computers & Office Applications	4
GECL	1101	Introduction to Writing Skills	3
GECR	1101	Christian Beliefs	3
BSED	1101	Educational Psychology & Human Development	3
BSPY	1101	Mathematical Physics	3
BSPY	1102	Physics Practical I	1
BSMT	1101	Calculus I	3
<b>Total</b>		<b>23</b>	

**First Year: Semester II**

Course Code	Course Title	CU	
GECA	1201	Philosophy of Christian Education	3
GECV	12--	One Vocational course	2
GECS	1201	Issues in Science and Religion	3
BSED	1203	Instructional technology	2
BSED	1202	Principles and methods of teaching	2
BSPY	1203	Properties of Matter, Heat and Thermodynamics	3
BSPY	1204	Electricity & Magnetism	3
BSMT	1202	Linear Algebra I	2
BSMT	1203	Calculus II	2
<b>Total</b>		<b>22</b>	

**Second Year: Semester I**

Course Code	Course Title	CU
BSED 2104	Classroom Testing and Evaluation	3
BSTS 2105	Mathematics Teaching Methods	2
BSTS 2106	Physics Teaching Methods	2
BSPY 2105	Classical Mechanics	3
BSPY 2106	Solid State Physics	3
BSMT 2104	Elements of Probability & Statistics	2
BSMT 2105	Real Analysis I	3
BSMT 2106	Differential Equations I	3
<b>Total Credits</b>		<b>21</b>

**Second Year: Semester II**

Course Code	Course Title	CU
BREM 2201	Research Methods	3
BSPY 2207	Wave & Optics	2
BSPY 2208	Geophysics	3
BSPY 2209	Physics Practical II	1
BSPY 2210	Statistical Physics	3
BSMT 2207	Classical Mechanics	3
BSMT 2208	Probability Theory	3
BSMT 2209	Numerical Analysis 1	3
<b>Total Credits</b>		<b>21</b>

**Summer**

Course Code	Course Title	CU
BSSP 2301	School Practice I	3
<b>Total credits</b>		<b>03</b>

**Third Year: Semester I**

Course Code	Course Title	CU
BREP 3102	Research Project	3
BSED 3105	Philosophy & Sociology of Education	3
BSED 3106	Communication Skills & Professional Ethics in education	3
BSED 3107	Guidance, Counselling & Special Needs Education	3
BSPY 3111	Electromagnetism	3
BSPY 3112	Physics Practical III	1
BSPY 3113	Electronics	2
BSMT 3114	Complex Variables	3
BSMT 3111	Abstract Algebra	3
<b>Total credits</b>		<b>24</b>

**Third Year: Semester II**

Course Code	Course Title	CU
BSED 3208	Educational Administration and Supervision OR	3
BSED 3209	Economics & Planning in Education	3
BSED 3210	Comparative and History of Education	3
BSED 3211	Curriculum Principles and Development	2
BSPY 3214	Quantum Mechanics	3
BSMT 3212	Differential Equations II	3
BSMT 3213	Numerical Analysis II	3

**Electives in Physics (02 Credit Units)**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BSPY 3215	Nuclear Physics	2
BSPY 3216	Space Physics	2
BSPY 3217	Elements of Environmental Physics	2
BSPY 3218	Solar Energy Physics	2
BSPY 3219	Computer Programming in Physics	2
BSPY 3220	Elements of Astronomy and Astrophysics	2
<b>Total credits</b>		<b>19</b>

**Summer**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BSSP 3302	School Practice II	3
<b>Total credits</b>		<b>3</b>

**PHYSICS AND CHEMISTRY****First Year: Semester I**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
GECH 1101	Health Principles	3
GECC 1101	Fundamentals of Computers & Office Applications	4
GECL 1101	Introduction to Writing Skills	3
GECR 1101	Christian Beliefs	3
BSED 1101	Educational Psychology & Human Development	3
BSPY 1101	Mathematical Physics	3
BSPY 1102	Physics Practical I	1
BSCH 1101	Basic Physical Chemistry	3
<b>Total</b>		<b>23</b>

**First Year: Semester II**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
GECA 1201	Philosophy of Christian Education	3
GECV 12--	One Vocational course	2
GECS 1201	Issues in Science and Religion	3
BSED 1203	Instructional technology	2
BSED 1202	Principles and methods of teaching	2
BSPY 1203	Properties of Matter, Heat and Thermodynamics	3
BSPY 1204	Electricity & Magnetism	3
BSCH 1202	Basic Inorganic Chemistry	2
BSCH 1203	Basic Organic Chemistry	3
<b>Total</b>		<b>23</b>

**Second Year: Semester I**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BSED 2104	Classroom Testing and Evaluation	3
BSTS 2102	Chemistry Teaching Methods	2
BSTS 2106	Physics Teaching Methods	2
BSPY 2105	Classical Mechanics	3
BSPY 2106	Solid State Physics	3
BSCH 2104	Bonding & Periodicity	2
BSCH 2105	Analytical Chemistry	3
BSCH 2106	Polyfunctional Aliphatics	2
<b>Total Credits</b>		<b>20</b>

**Second Year: Semester II**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BREM 2201	Research Methods	3

BSPY	2207	Wave & Optics	2
BSPY	2208	Geophysics	3
BSPY	2209	Physics Practical II	1
BSPY	2210	Statistical Physics	3
BSCH	2207	Chemical Thermodynamics	3
BSCH	2208	Chemical Kinetics	2
BSCH	2209	Aromatic Chemistry	3
BSCH	2210	Physical Chemistry Practical	1
<b>Total Credits</b>			<b>21</b>

**Summer**

Course Code	Course Title	CU	
BSSP 2301	School Practice I	3	
<b>Total credits</b>			<b>3</b>

**Third Year: Semester I**

Course Code	Course Title	CU
BREP 3102	Research Project	3
BSED 3105	Philosophy & Sociology of Education	3
BSED 3106	Communication Skills & Professional Ethics in education	3
BSED 3107	Guidance, Counseling & Special Needs Education	3
BSPY 3111	Electromagnetism	3
BSPY 3112	Physics Practical III	1
BSPY 3113	Electronics	2
BSCH 3111	Transition Metal & Nuclear Chemistry	2
BSCH 3112	Inorganic Chemistry Practical	1

**Elective (02 Credit Units)**

Course Code	Course Title	CU	
BSCH 3113	Polymer Chemistry	2	
BSCH 3114	Colloidal Chemistry	2	
BSCH 3115	Medicinal Chemistry	2	
BSCH 3116	Environmental Chemistry	2	
<b>Total credits</b>			<b>23</b>

**Third Year: Semester II**

Course Code	Course Title	CU
BSED 3208	Educational Administration and Supervision OR	3
BSED 3209	Economics & Planning in Education	3
BSED 3210	Comparative and History of Education	3
BSED 3211	Curriculum Principles and Development	2
BSPY 3214	Quantum Mechanics	3
BSCH 3217	Organic Spectroscopy	3
BSCH 3218	Organic Chemistry Practical	1
BSCH 3219	Protein and Sugar Chemistry	3

**Electives in Physics (02 Credit Units)**

Course Code	Course Title	CU	
BSPY 3215	Nuclear Physics	2	
BSPY 3216	Space Physics	2	
BSPY 3217	Elements of Environmental Physics	2	
BSPY 3218	Solar Energy Physics	2	
BSPY 3219	Computer Programming in Physics	2	
BSPY 3220	Elements of Astronomy and Astrophysics	2	
<b>Total credits</b>			<b>20</b>

**Summer**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BSSP 3302	School Practice II	3
<b>Total credits</b>		<b>03</b>

**BIOLOGY AND CHEMISTRY****First Year: Semester I**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
GECH 1101	Health Principles	3
GECC 1101	Fundamentals of Computers & Office Applications	4
GECL 1101	Introduction to Writing Skills	3
GECR 1101	Christian Beliefs	3
BSED 1101	Educational Psychology & Human Development	3
BSCH 1101	Basic Physical Chemistry	3
BSBI 1101	Cell and Molecular Biology	3
<b>Total</b>		<b>22</b>

**First Year: Semester II**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
GECA 1201	Philosophy of Christian Education	3
GECV 12--	One Vocational Course	2
GECS 1201	Issues in Science and Religion	3
BSED 1203	Instructional technology	2
BSED 1202	Principles and Methods of Teaching	2
BSCH 1202	Basic Inorganic Chemistry	2
BSCH 1203	Basic Organic Chemistry	3
BSBI 1202	General Techniques in Biology & Microscopy Practical	1
BSBI 1203	Plant Diversity, Forms & Biosystematics	3
BSBI 1204	Invertebrate Zoology	2
<b>Total</b>		<b>23</b>

**Second Year: Semester I**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BSED 2104	Classroom Testing and Evaluation	3
BSTS 2102	Chemistry Teaching Methods	2
BSTS 2101	Biology Teaching Methods	2
BSCH 2104	Bonding & Periodicity	2
BSCH 2105	Analytical Chemistry	3
BSCH 2106	Polyfunctional Aliphatics	2
BSBI 2105	Animal Forms, Histology & Development	3
BSBI 2106	Principles of Microbiology & Immunology	3
BSBI 2107	Enzymology and Biochemical Practical	1
<b>Total Credits</b>		<b>21</b>

**Second Year: Semester II**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BREM 2201	Research Methods	3
BSCH 2207	Chemical Thermodynamics	3
BSCH 2208	Chemical Kinetics	2
BSCH 2209	Aromatic Chemistry	3
BSCH 2210	Physical Chemistry Practical	1
BSBI 2208	Anatomy and Physiology Practical	1
BSBI 2209	Plant Physiology & Development	3
BSBI 2210	Animal Physiology	3
BSBI 2211	Biostatistics	3
<b>Total Credits</b>		<b>22</b>

**Summer**



Course Code	Course Title	CU
BSSP 2301	School Practice I	3
<b>Total credits</b>		<b>03</b>

**Third Year: Semester I**

Course Code	Course Title	CU
BREP 3102	Research Project	3
BSED 3105	Philosophy & Sociology of Education	3
BSED 3106	Communication Skills & Professional Ethics in education	3
BSED 3107	Guidance, Counseling & Special Needs Education	3
BSCH 3111	Transition Metal & Nuclear Chemistry	2
BSCH 3112	Inorganic Chemistry Practical	1
BSBI 3112	Genetics	2
BSBI 3113	Ecology & Evolution	4

**Elective in Chemistry (02 Credit Units)**

Course Code	Course Title	CU
BSCH 3113	Polymer Chemistry	2
BSCH 3114	Colloidal Chemistry	2
BSCH 3115	Medicinal Chemistry	2
BSCH 3116	Environmental Chemistry	2
<b>Total credits</b>		<b>23</b>

**Third Year: Semester II**

Course Code	Course Title	CU
BSED 3208	Educational Administration and Supervision OR	3
BSED 3209	Economics & Planning of Education	3
BSED 3210	Comparative and History of Education	3
BSED 3211	Curriculum Principles and Development	2
BSCH 3217	Organic Spectroscopy	3
BSCH 3218	Organic Chemistry Practical Activities	1
BSCH 3219	Protein and Sugar Chemistry	3
BSBI 3214	Entomology & Parasitology	2

**Electives in Biology (02 Credit Units)**

Course Code	Course Title	CU
BSBI 3215	Field Biology of East Africa	2
BSBI 3216	General Mycology and Phycology	2
BSBI 3217	Environmental Issues	2
BSBI 3218	Freshwater Biology	2
BSBI 3219	Mammalogy	2
<b>Total credits</b>		<b>19</b>

**Summer**

Course Code	Course Title	CU
BSSP 3302	School Practice II	3
<b>Total credits</b>		<b>03</b>

## CHEMISTRY AND MATHEMATICS

### First Year Semester I

Course Code	Course Title	CU
GECH 1101	Health Principles	3
GECC 1101	Fundamentals of Computers & Office Applications	4
GECL 1101	Introduction to Writing Skills	3
GECR 1101	Christian Beliefs	3
BSED 1101	Educational Psychology & Human Development	3
BSCH 1101	Basic Physical Chemistry	3
BSMT 1101	Calculus I	3
<b>Total</b>		<b>22</b>

### First Year Semester II

Course Code	Course Title	CU
GECA 1201	Philosophy of Christian Education	3
GECV 12--	One Vocational Course	2
GECs 1201	Issues in Science and Religion	3
BSED 1203	Instructional Technology	2
BSED 1202	Principles and Methods of Teaching	2
BSCH 1202	Basic Inorganic Chemistry	2
BSCH 1203	Basic Organic Chemistry	3
BSMT 1202	Linear Algebra	2
BSMT 1203	Calculus II	2
<b>Total</b>		<b>21</b>

### Second Year Semester I

Course Code	Course Title	CU
BSED 2104	Classroom Testing and Evaluation	3
BSTS 2102	Chemistry Teaching Methods	2
BSTS 2105	Mathematics Teaching Method	2
BSCH 2104	Bonding & Periodicity	2
BSCH 2105	Analytical Chemistry	3
BSCH 2106	Polyfunctional Aliphatics	2
BSMT 2104	Elements of Probability & Statistics	2
BSMT 2105	Real Analysis I	3
BSMT 2106	Differential Equations I	3
<b>Total Credits</b>		<b>22</b>

### Second Year Semester II

Course Code	Course Title	CU
BREM 2201	Research Methods	3
BSCH 2207	Chemical Thermodynamics	3
BSCH 2208	Chemical Kinetics	2
BSCH 2209	Aromatic Chemistry	3
BSCH 2210	Physical Chemistry Practical	1
BSMT 2207	Classical Mechanics	3
BSMT 2208	Probability Theory	3
BSMT 2209	Numerical Analysis I	3
<b>Total Credits</b>		<b>21</b>

### Summer

Course Code	Course Title	CU
BSSP 2301	School Practice I	3
<b>Total credits</b>		<b>03</b>

**Third Year Semester I**

Course Code	Course Title	CU
BREP 3102	Research Project	3
BSED 3105	Philosophy & Sociology of Education	3
BSED 3106	Communication Skills & Professional Ethics in education	3
BSED 3107	Guidance, Counseling & Special Needs Education	3
BSCH 3111	Transition Metal & Nuclear Chemistry	2
BSCH 3112	Inorganic Chemistry Practical	1
BSMT 3110	Complex Variables	3
BSMT 3111	Abstract Algebra	3

**Elective (02 Credit Units)**

Course Code	Course Title	CU
BSCH 3113	Polymer Chemistry	2
BSCH 3114	Colloidal Chemistry	2
BSCH 3115	Medicinal Chemistry	2
BSCH 3116	Environmental Chemistry	2
<b>Total credits</b>		<b>23</b>

**Third Year Semester II**

Course Code	Course Title	CU
BSED 3208	Educational Administration and Supervision OR	3
BSED 3209	Economics & Planning in Education	3
BSED 3210	Comparative and History of Education	3
BSED 3211	Curriculum Principles and Development	2
BSCH 3217	Organic Spectroscopy	3
BSCH 3218	Organic Chemistry Practical	1
BSCH 3219	Protein and Sugar Chemistry	3
BSMT 3212	Differential Equations II	3
BSMT 3213	Numerical Analysis II	3
<b>Total credits</b>		<b>21</b>

**Summer**

Course Code	Course Title	CU
BSSP 3302	School Practice II	3
<b>Total credits</b>		<b>03</b>

**BIOLOGY AND AGRICULTURE****First Year: Semester 1**

Course Code	Course Title	CU
GECH 1101	Health Principles	3
GECC 1101	Fundamentals of Computers & Office Applications	4
GECL 1101	Introduction to Writing Skills	3
GECR 1101	Christian Beliefs	3
BSED 1101	Educational Psychology & Human Development	3
BSBI 1101	Cell and Molecular Biology	3
BSGR 1101	Principles of Crop Science and Agronomy	2
BSGR 1102	Special Project in Crop Science	1
<b>Total</b>		<b>22</b>

**First Year: Semester II**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
GECA 1201	Philosophy of Christian Education	3
GECV 12--	One Vocational course	2
GECS 1201	Issues in Science and Religion	3
BSED 1203	Instructional technology	2
BSED 1202	Principles and methods of teaching	2
BSBI 1202	General Techniques in Biology & Microscopy Practical	1
BSBI 1203	Plant Diversity, forms & Biosystematics	3
BSBI 1204	Invertebrate Zoology	2
BSGR 1205	Principles of Soil Science	2
BSGR 1208	Principles of Biochemistry	2
<b>Total</b>		<b>22</b>

**Second Year: Semester I**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BSED 2104	Classroom Testing and Evaluation	3
BSTS 2103	Agriculture Teaching Methods	2
BSTS 2101	Biology Teaching Methods	2
BSBI 2105	Animal Forms, Histology & Development	3
BSBI 2106	Principles of Microbiology & Immunology	3
BSBI 2107	Enzymology and Biochemical Practical	1
BSGR 2109	Physiology of Farm Animals	3
BSGR 2110	Special Project in Animal Science	1
BSGR 2113	Fundamentals of Crop Protection	3
<b>Total Credits</b>		<b>21</b>

**Second Year: Semester II**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BREM 2201	Research Methods	3
BSBI 2208	Anatomy and Physiology Practical	1
BSBI 2209	Plant Physiology & Development	3
BSBI 2210	Animal Physiology	3
BSBI 2211	Biostatistics	3
BSGR 2215	Animal Nutrition	3
BSGR 2216	Livestock Production Systems & Management	3
BSGR 2219	Farm Power and Machinery	3
BSGR 2220	Special Projects in Machinery & Engineering	1
<b>Total Credits</b>		<b>23</b>

**Summer**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BSSP 2301	School Practice I	3
<b>Total credits</b>		<b>03</b>

**Third Year : Semester I**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BREP 3102	Research Project	3
BSED 3105	Philosophy & Sociology of Education	3
BSED 3106	Communication Skills & Professional Ethics in education	3
BSED 3107	Guidance, Counseling & Special Needs Education	3
BSBI 3112	Genetics	2
BSBI 3113	Ecology & Evolution	4
BSGR 3121	Poultry Production	2
BSGR 3124	Animal Improvement and Health	3

<b>Total credits</b>		<b>23</b>
<b>Third Year : Semester II</b>		
<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BSED 3208	Educational Administration and Supervision OR	3
BSED 3209	Economics & Planning in Education	3
BSED 3210	Comparative and History of Education	3
BSED 3211	Curriculum Principles and Development	2
BSGR 3225	Agricultural Economics, Farm Mgt & Accounting	3
BSGR 3226	Post-Harvest Handling & Technology	2
BSGR 3227	Principles of Plant Breeding and Crop Improvement	2
BSBI 3214	Entomology & Parasitology	2
<b>Electives in Biology (02 Credit Units)</b>		
<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BSBI 3215	Field Biology of East Africa	2
BSBI 3216	General Mycology and Phycology	2
BSBI 3217	Environmental Issues	2
BSBI 3218	Freshwater Biology	2
BSBI 3219	Mammalogy	2
<b>Total credits</b>		<b>19</b>
<b>Summer</b>		
<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BSSP 3302	School Practice II	3
<b>Total credits</b>		<b>03</b>

## MATHEMATICS AND INFORMATION & COMPUTER TECHNOLOGY (ICT)

<b>First Year : Semester I</b>		
<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
GECH 1101	Health Principles	3
GECC 1101	Fundamentals of Computers & Office Applications	4
GECL 1101	Introduction to Writing Skills	3
GECR 1101	Christian Beliefs	3
BSED 1101	Educational Psychology & Human Development	3
BSMT 1101	Calculus I	3
BBCT 1111	Fundamentals of relational data base systems	3
<b>Total</b>		<b>22</b>
<b>First Year: Semester II</b>		
<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
GECA 1201	Philosophy of Christian Education	3
GECV 12--	One Vocational Course	2
GECS 1201	Issues in Science and Religion	3
BSED 1203	Instructional Technology	2
BSED 1202	Principles and Methods of Teaching	2
BSMT 1202	Linear Algebra	2
BSMT 1203	Calculus II	2
BSCT 1222	Programming using VB.Net	3
<b>Total</b>		<b>19</b>
<b>First Year: Semester I</b>		
<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BSED 2104	Classroom Testing and Evaluation	3
BSTS 2104	ICT Teaching Methods	2

BSTS	2105	Mathematics Teaching Methods	2
BSMT	2104	Elements of Probability & Statistics	2
BSMT	2105	Real Analysis I	3
BSMT	2106	Differential Equations I	3
BBCT	2131	Systems Analysis and Design	3
BBCT	1151	Fundamentals of Web Development	3
<b>Total Credits</b>			<b>21</b>

**First Year: Semester II**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>	
BREM	2201	Research Methods	3
BSMT	2207	Classical Mechanics	3
BSMT	2208	Probability Theory	3
BSMT	2209	Numerical Analysis I	3
BBCT	1232	Multimedia Systems	3
BBCT	1212	Information Systems	3
BBCT	2212	Internet and Web programming	3
<b>Total Credits</b>			<b>21</b>

**Summer**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>	
BSSP	2301	School Practice I	3
<b>Total credits</b>			<b>03</b>

**Third Year: Semester I**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>	
BREP	3102	Research Project	3
BSED	3105	Philosophy & Sociology of Education	3
BSED	3106	Communication Skills & Professional Ethics in education	3
BSED	3107	Guidance, Counselling & Special Needs Education	3
BSMT	3110	Complex Variables	3
BSMT	3111	Abstract Algebra	3
BBCT	3121	Simulation and Modeling	3
BSCT	1121	Programming Concept Using C	3
<b>Total credits</b>			<b>24</b>

**Third Year: Semester II**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>	
BSED	3208	Educational Administration and Supervision OR	3
BSED	3209	Economics & Planning in Education	3
BSED	3210	Comparative and History of Education	3
BSED	3211	Curriculum Principles and Development	2
BSMT	3212	Differential Equations II	3
BSMT	3213	Numerical Analysis II	3
BNCT	2222	Network and information security	3
BNCT	3232	PC Hardware Repair and Maintenance	3
BNCT	2212	Computer Network and Data communication	3
<b>Total credits</b>			<b>23</b>

**Summer**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>	
BSSP	3302	School Practice II	3
<b>Total credits</b>			<b>03</b>

## PHYSICS AND ICT

### First Year: Semester I

Course Code	Course Title	CU
GECH 1101	Health Principles	3
GECC 1101	Fundamentals of Computers & Office Applications	4
GECL 1101	Introduction to Writing Skills	3
GECR 1101	Christian Beliefs	3
BSED 1101	Educational Psychology & Human Development	3
BSPY 1101	Mathematical Physics	3
BSPY 1102	Physics Practical I	1
BBCT 1111	Fundamentals of relational data base systems	3
<b>Total</b>		<b>23</b>

### First Year: Semester II

Course Code	Course Title	CU
GECA 1201	Philosophy of Christian Education	3
GECV 12--	One Vocational Course	2
GECS 1201	Issues in Science and Religion	3
BSED 1203	Instructional Technology	2
BSED 1202	Principles and Methods of Teaching	2
BSPY 1203	Properties of Matter, Heat and Thermodynamics	3
BSPY 1204	Electricity & Magnetism	3
BSCT 1222	Programming using VB.Net	3
<b>Total</b>		<b>21</b>

### First Year: Semester I

Course Code	Course Title	CU
BSED 2104	Classroom Testing and Evaluation	3
BSTS 2104	ICT Teaching Methods	2
BSTS 2106	Physics Teaching Methods	2
BSPY 2105	Classical Mechanics	3
BSPY 2106	Solid State Physics	3
BBCT 2131	Systems Analysis and Design	3
BBCT 1151	Fundamentals of Web Development	3
<b>Total Credits</b>		<b>19</b>

### Second Year: Semester II

Course Code	Course Title	CU
BREM 2201	Research Methods	3
BSPY 2207	Wave & Optics	2
BSPY 2208	Geophysics	3
BSPY 2209	Physics Practical II	1
BSPY 2210	Statistical Physics	3
BBCT 1232	Multimedia Systems	3
BBCT 1212	Information Systems	3
BBCT 2212	Internet and Web programming	3
<b>Total Credits</b>		<b>21</b>

### Summer

Course Code	Course Title	CU
BSSP 2301	School Practice I	3
<b>Total credits</b>		<b>03</b>

**Third Year Semester I**

Course Code	Course Title	CU
BREP 3102	Research Project	3
BSED 3105	Philosophy & Sociology of Education	3
BSED 3106	Communication Skills & Professional Ethics in education	3
BSED 3107	Guidance, Counselling & Special Needs Education	3
BSPY 3111	Electromagnetism	3
BSPY 3112	Physics Practical III	1
BSPY 3113	Electronics	2
BBCT 3121	Simulation and Modeling	3
BSCT 1121	Programming Concept Using C	3
<b>Total credits</b>		<b>24</b>

**Third Year Semester II**

Course Code	Course Title	CU
BSED 3208	Educational Administration and Supervision OR	3
BSED 3209	Economics & Planning in Education	3
BSED 3210	Comparative and History of Education	3
BSED 3211	Curriculum Principles and Development	2
BSPY 3214	Quantum Mechanics	3
BNCT 2222	Network and information security	3
BNCT 3232	PC Hardware Repair and Maintenance	3
BNCT 2212	Computer Network and Data communication	3

**Electives in Physics (02 Credit Units)**

Course Code	Course Title	CU
BSPY 3215	Nuclear Physics	2
BSPY 3216	Space Physics	2
BSPY 3217	Elements of Environmental Physics	2
BSPY 3218	Solar Energy Physics	2
BSPY 3219	Computer Programming in Physics	2
BSPY 3220	Elements of Astronomy and Astrophysics	2
<b>Total credits</b>		<b>22</b>

**Summer**

Course Code	Course Title	CU
BSSP 3302	School Practice II	3
<b>Total credits</b>		<b>03</b>

**CHEMISTRY AND ICT****First Year Semester I**

Course Code	Course Title	CU
GECH 1101	Health Principles	3
GECC 1101	Fundamentals of Computers & Office Applications	4
GECL 1101	Introduction to Writing Skills	3
GECR 1101	Christian Beliefs	3
BSED 1101	Educational Psychology & Human Development	3
BSCH 1101	Basic Physical Chemistry	3
BBCT 1111	Fundamentals of relational data base systems	3
<b>Total</b>		<b>22</b>

**First Year Semester II**

Course Code	Course Title	CU
GECA 1201	Philosophy of Christian Education	3
GECV 12--	One Vocational Course	2



GECS	1202	Statistics	3
BSED	1203	Instructional Technology	2
BSED	1202	Principles and Methods of Teaching	2
BSCH	1202	Basic Inorganic Chemistry	2
BSCH	1203	Basic Organic Chemistry	3
BSCT	1222	Programming using VB.Net	3
<b>Total</b>			<b>20</b>

**Second Year: Semester II**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BSED 2104	Classroom Testing and Evaluation	3
BSTS 2102	Chemistry Teaching Methods	2
BSTS 2104	ICT Teaching Methods	2
BSCH 2104	Bonding & Periodicity	2
BSCH 2105	Analytical Chemistry	3
BSCH 2106	Polyfunctional Aliphatics	2
BBCT 2131	Systems Analysis and Design	3
BBCT 1151	Fundamentals of Web Development	3
<b>Total Credits</b>		<b>20</b>

**Second Year: Semester II**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BREM 2201	Research Methods	3
BSCH 2207	Chemical Thermodynamics	3
BSCH 2208	Chemical Kinetics	2
BSCH 2209	Aromatic Chemistry	3
BSCH 2210	Physical Chemistry Practical	1
BBCT 1232	Multimedia Systems	3
BBCT 1212	Information Systems	3
BBCT 2212	Internet and Web programming	3
<b>Total Credits</b>		<b>21</b>

**Summer**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BSSP 2301	School Practice I	3
<b>Total credits</b>		<b>03</b>

**Third Year: Semester I**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BREP 3102	Research Project	3
BSED 3105	Philosophy & Sociology of Education	3
BSED 3106	Communication Skills & Professional Ethics in education	3
BSED 3107	Guidance, Counseling & Special Needs Education	3
BSCH 3111	Transition Metal & Nuclear Chemistry	2
BSCH 3112	Inorganic Chemistry Practical	1
BBCT 3121	Simulation and Modeling	3
BSCT 1121	Programming Concept Using C	3

**Elective (02 Credit Units)**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BSCH 3113	Polymer Chemistry	2
BSCH 3114	Colloidal Chemistry	2
BSCH 3115	Medicinal Chemistry	2
BSCH 3116	Environmental Chemistry	2
<b>Total credits</b>		<b>23</b>

**Third Year Semester II**

Course Code	Course Title	CU
BSED 3208	Educational Administration and Supervision OR	3
BSED 3209	Economics & Planning of Education	3
BSED 3210	Comparative and History of Education	3
BSED 3211	Curriculum Principles and Development	2
BSCH 3217	Organic Spectroscopy	3
BSCH 3218	Organic Chemistry Practical	1
BSCH 3219	Protein and Sugar Chemistry	3
BNCT 2222	Network and Information Security	3
BNCT 3232	PC Hardware Repair and Maintenance	3
BNCT 2212	Computer Network and Data communication	3
<b>Total credits</b>		<b>24</b>

**Summer**

Course Code	Course Title	CU
BSSP 3302	School Practice II	3
<b>Total credits</b>		<b>03</b>

**AGRICULTURE DOUBLE MAIN****First Year: Semester I**

Course Code	Course Title	CU
GECH 1101	Health Principles	3
GECC 1101	Fundamentals of Computers & Office Applications	4
GECL 1101	Introduction to Writing Skills	3
GECR 1101	Christian Beliefs	3
BSED 1101	Educational Psychology & Human Development	3
BSGR 1101	Principles of Crop Science and Agronomy	2
BSGR 1102	Special Project in Crop Science	1
BSGR 1103	Mathematics for Agriculturalists	2
BSGR 1104	Principles of Genetics	2
<b>Total</b>		<b>23</b>

**First Year: Semester II**

Course Code	Course Title	CU
GECA 1201	Philosophy of Christian Education	3
GECV 12--	One Vocational Course	2
GECs 1201	Issues in Science and Religion	3
BSED 1202	Principles and Methods of Teaching	2
BSED 1203	Instructional Technology	2
BSGR 1205	Principles of Soil Science	2
BSGR 1206	Agricultural Botany & Plant Physiology	3
BSGR 1207	Seed Science & Technology	3
BSGR 1208	Principles of Biochemistry	2
<b>Total</b>		<b>22</b>

**Second Year Semester I**

Course Code	Course Title	CU
BSED 2104	Classroom Testing and Evaluation	3
BSTS 2103	Agriculture Teaching Methods	2
BSGR 2109	Physiology of Farm Animals	3
BSGR 2110	Special Project in Animal Science	1
BSGR 2111	Soil Conservation & Land Reclamation	3
BSGR 2112	Agricultural Zoology and Microbiology	3
BSGR 2113	Fundamentals of Crop Protection	3
BSGR 2114	Sustainable Agriculture	2
<b>Total</b>		<b>20</b>

**Second Year: Semester II**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BREM 2201	Research Methods	3
BSGR 2215	Animal Nutrition	3
BSGR 2216	Livestock Production Systems & Management	3
BSGR 2217	Soil Fertility and Plant Nutrition	3
BSGR 2218	Crop protection	3
BSGR 2219	Farm Power and Machinery	3
BSGR 2220	Special Projects in Machinery & Engineering	1
BSBI 2211	Biostatistics	3
<b>Total</b>		<b>22</b>

**Summer**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BSSP 2301	School Practice I	3
<b>Total credits</b>		<b>03</b>

**Third Year: Semester I**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BREP 3102	Research Project	3
BSED 3105	Philosophy & Sociology of Education	3
BSED 3106	Communication Skills & Professional Ethics in education	3
BSED 3107	Guidance, Counseling & Special Needs Education	3
BSGR 3121	Poultry Production	2
BSGR 3122	Pasture Agronomy & Agroforestry	3
BSGR 3123	Plant Biotechnology	3
BSGR 3124	Animal Improvement and Health	3
<b>Total</b>		<b>23</b>

**Third Year: Semester II**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BSED 3208	Educational Administration and Supervision OR	3
BSED 3209	Economics & Planning of Education	3
BSED 3210	Comparative and History of Education	3
BSED 3211	Curriculum Principles and Development	2
BSGR 3225	Agricultural Economics, Farm Mgt & Accounting	3
BSGR 3226	Post-Harvest Handling & Technology	2
BSGR 3227	Principles of Plant Breeding and Crop Improvement	2
BSGR 3228	Farm Structures and Buildings	3
BSGR 3229	Introduction to Microeconomics	2
<b>Total</b>		<b>20</b>

**Summer**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BSSP 3302	School Practice II	3
<b>Total credits</b>		<b>03</b>

## COURSE DESCRIPTIONS FOR GENERAL SCIENCE COURSES

### a) AGRICULTURE COURSES

#### **BSGR 1101 Principles of Crop Science and Agronomy**

This course introduces the student to the study of principles and practices of crop production and field management. It deals with all aspects of soil, crop and water management. It will cover the role played by both environmental factors such as temperature, rainfall, moisture, edaphic factors and biotic factors and management factors such as timely planting, seedbed preparation, crop rotation, fertilizer application and their effect on crop performance. The course will also cover topics on farming systems, their evolution, their productivity drivers, and causes of their collapse and how to restore them. Practical work will include, Osmosis in plants cells, raises at least two annual crops (cereal & legumes) in the demonstration farm to grasp the agronomic practices & developmental stages in plant growth (germination %, height of plants, leaf area, and total yield).

#### **BSGR 1102 Special Project in Crop Science**

This is an intensive field course which is designed to help students acquire practical skills in crop science. The students are supposed to be guided by the teacher in executing field activities. The course involves hands-on activities which range from planting short-growing crops, apply agronomic practices and come up with new technologies in crop science. The issue of technological innovation in crop management is much emphasized in this course.

#### **BSGR 1103 Mathematics for Agriculturalists**

This course will provide basic review of concepts in elementary mathematics like whole numbers, common fractions and decimals, algebra and linear equations, ratios and proportions, special formula and measurement. Special emphasis is tailored to application specially calculations applicable to the routine problems of fertilizers, feeding stuffs, surveying, buildings, bookkeeping.

**Practical work:** Students use theoretical knowledge to design the layout of farm structures, mix feeds, determine fertilizer requirements for specified allocated plots etc

#### **BSGR 1104 Principles of Genetics**

This course covers both classical and molecular genetics and will cover an in depth study of the gene structure and function. Specific attention on Mendelian genetics, chromosomal theory of inheritance, gene and chromosome mutation, DNA structure and function, genetic control, polygenic systems, penetrance and expressivity, genetic linkage and linkage maps, introduction to population genetics and the Hardy-Weinberg Equilibrium, Causes of genetic variation and introduction to quantitative genetics and estimation of genetic variance and their Heritability. Practical work will include collecting various varieties of the same crop (Beans, G/nuts, Rice etc.) and compare the size, shape, color, weight. Students will also go to the field to look at animals and plants for the environmental and genetically inherited differences.

#### **BSGR 1205 Principles of Soil Science**

The core of this course is the basic introduction to the physical, chemical and biological characteristics of soils and pedology – knowledge that is essential for stewardship of forest and agricultural land and environmental protection. Soil is both a field and a laboratory descriptive and so this course will emphasize both the field study of soils and laboratory techniques used to characterize them. The course covers soil genesis

and composition, soil classification, soil physical properties, soil water, aeration and thermal properties, soil colloids, change characteristics, cation exchange, soil reaction, soil organic matter and soil biology. The practical will done on soil sampling, soil texture determination in the field and in the laboratory, Soil pH, cation exchange, organic matter determination, soil microorganism and nutrient analysis. Field visits characterize profile of soil pits to indicate horizons, collection and characterization of rocks will be done.

### **BSGR 1206 Agricultural Botany & Plant Physiology**

The course covers cell biology, plant water relations, growth and development in flowering plants, factors affecting growth and development with emphasis on abiotic factors, plant growth hormones and phases of growth of the plant. It will also cover plant nutrition with emphasis on process/theories explaining absorption of mineral salts. Photosynthesis and photorespiration will also be covered. Botany will cover areas like importance of plants, classification of agricultural crops with focus on binomial nomenclature and the rules, plants tissues, description of the external parts clearly indicating substitute and additional function of the parts like roots, stems and roots. Monoecious and dioecious crops, flowers, fruits and seeds. Practical work will include: Osmosis in plant cells, identification of growth stages of plants, characterization of roots, stems, leaves and flowers. Students field visit to classify crops and write reports.

### **BSGR 1207 Seed Science and Technology**

This course will cover Seed biology, seed formation and development, production of seeds, fundamentals of seed agronomy, seed drying and storage, technical aspects of seed quality (viability and moisture determination, and seed pathology). Evolution of seed industry and certification, seed market and legislation, intellectual property rights and seed production (hybrid seeds). Practical will include germination tests, seed treatment/priming, breaking seed dormancy, determining seed weight etc.

### **BSGR 1208 Principles of Biochemistry**

The course covers the broad principles of bio chemistry of biologically important molecules and their function in living cells. This foundation is necessary to understand and develop agricultural practices such as fertilization, protection against pathogens and breeding techniques. It will cover the chemistry of carbohydrates, mono and polysaccharides, lipids, fats and oils, proteins, amino acids, primary and secondary, tertiary and quaternary structures of proteins, enzymes, nature and classification, kinetics and factors effecting enzyme activity, co-enzymes. Nucleic acids, Nucleotides and electron transport system, oxidative phosphorylation. Practical work will include, Behavior of cells in solutions (Isotonic, Hypertonic, Hypotonic solutions), examining cells under a microscope, testing for carbohydrates, proteins, Vitamins, Preparation of Buffers pH testing etc.

### **BSGR 2109 Physiology of Farm Animal**

The course covers Animal cell structure and function, blood, skeletal and digestive system. Special attention should be given to reproductive physiology of farm animals especially dairy and poultry. The special attention will be paid to Oogenesis and spermatogenesis, so estrus in farm animals, estrus synchronization, artificial insemination, milk synthesis and let down and reproductive anatomy of the bird and other farm animals. Practical, Students will be given Ruminant & non-ruminant animals to slaughter & study the reproductive, Digestive system.

### **BSGR 2110 Special Projects in Animal Science**

The course is designed to expose students to general practical skills in the area of animal science. At the end of the course, students will come up with an innovation

(model, technique, local technology, skill, etc) towards problem solving in animal science for assessment. Emphasis in this course is put on milking skills, feed mixing, ration formulation and mixing, non-ruminant and ruminants, Management skills for chicken and quails, management of birds: feeding and medication, special incubation, management of different categories of animal diseases, identification and control measures. Safety of keeping birds, management systems and production; heifer management; cattle dipping, spray rays, paddocking; grasses, pastures for construction and management; milk storage and artificial insemination techniques. Innovation and problem solving in animal science project.

### **BSGR 2111 Soil Conservation and Land Reclamation**

The course will cover the theory and practice of soil and water conservation and management for humid, semi-acid and arid region soils. It will also cover methods of irrigation and drainage, soil-water relationships, principles of water storage, and methods of soil and water conservation, water harvesting & water storage structures, drainage techniques, operation and maintenance of water pumps, erosion, causes and effects. **Practical:** students will be involved in soil conservation practices and field trip to an irrigation site, identification of cover crops, Reclaimed sites, drained sites and visit farmers practicing various soil conservation methods.

### **BSGR 2112 Agricultural Zoology and Microbiology**

The course introduces students to vertebrates and invertebrate's animals: Zoology will cover aspects like Basic understanding of the animal kingdom and animal-like protists from an evolutionary perspective. The taxonomy, diversity, behavior and ecology of all animal phyla with an emphasis on the functional anatomy of the major groups. Microbiology on the other hand will include: Importance of microorganisms; prokaryotic and eukaryotic cells; sterilization procedures; culture media: preparation, types of culture media; smearing and staining; microbial growth: factors affecting growth, growth pattern, determination of microbial growth; morphology and classification of major groups of microorganisms: fungi, bacteria, viruses, protozoa, algae. Microbes and Disease, Microbes in food, Sewage and Industry, Control of microorganisms. **Practical:** Microscopy, aseptic techniques, sterilization, culturing, staining, and identification of microbes based on morphological features. Students will also make a collection of different insects, classify and store.

### **BSGR 2113 Fundamentals of Crop Protection**

The course will cover aspects of mycology, nematology and entomology. The key areas under mycology will be introduction to fungi, importance of fungi, fungal body and hyphal, modifications, fungal growth and nutrition reproduction, dispersal and methods of perennation in fungi, classification with emphasis on plant pathogenic features. **Practical work:** Microscopy and culturing recognizing damage by fungi on a crop in the field and identifying various fungal structures i.e. thali, spores, and fruiting bodies. **Entomology:** Will cover branches of entomology, reasons for the success of insects, The class Insecta; classification, characteristics of Arthropods and Insects, insect morphology, anatomy and physiology, insect life cycles and important orders of insects of agricultural importance: Orthoptera, Isoptera, Thysanoptera, Lepidoptera, Coleoptera, Hemiptera, Diptera, Hymenoptera. **Practical work:** Trapping and preserving insect specimens, identification of important orders of insects, identification of internal and external parts of an insect and raising insects in insectaries to observe their life cycles. **Nematology** will cover definition of nematodes, modes of reproduction in plant pathogenic nematodes, Classification of plant pathogenic nematodes, signs of nematode infestation, effects of nematodes on crop yields and control of Nematodes. **Practical work:** Field visit to identify plant infested by nematodes.

**BSGR 2114 Sustainable Agriculture**

This course unit will introduce students to understand the origin, major concepts and current issues of sustainability in agriculture. It explores environmental, economic, and social considerations of sustainable in agriculture. Overall, the major issues to be covered will include: introduction to sustainability and the origins of agriculture, conventional agricultural system, Permaculture and agroecology, biodiversity and genetic modification, climate change, energy, carbon and perennialization, organic farming and agricultural policy. Practical work: Field practical's involving sustainable practices, students formulate organic agrochemicals. Field visits: To model farms to familiarize with the sustainable practices used.

**BSGR 2215 Animal Nutrition**

This course covers basic terminologies in animal nutrition, classification of feeds, feed intake, feed digestibility and its determination, ration formulation and their relationship to efficient livestock production; feed concentrates (protein and carbohydrates), roughages/fibrous feeds and forage utilization, micro nutrient supplements, feed additives, anti-nutrient factors, regulation of feed intake, feed manufacturing and processing. Practical work on identification and collection of pastures for feed conservation (hay & silage making), Practical identification of different feeds for different animal groups, Field trip to feed factory.

**BSGR 2216 Livestock, Production Systems and Management**

This course will cover the study of four footed domestic animals both ruminants and non- ruminants especially cattle, goats, sheep Rabbits and pigs. Topics to be covered will include importance of livestock, constraints to live stock productions and solutions, Breeds of cattle, sheep goats and pigs etc. Role of management in improving the reproduction efficiency in farm animals & Housing, Breeding Management: System of breeding Economic traits. Methods of Breeding - Prenatal and postnatal care and management of cattle, Pigs, goats and sheep-Care of Neonate and young calves/kids/lambs/piglets - Management strategies for reducing mortality in calves, age at first calving/kidding/lambing/furrowing and calving,/ kidding/lambing furrowing interval in cattle, goats, pigs, and sheep. Special attention will be put on Dairy and Beef production, record keeping, disease control and basic management procedures like management of in-calf cows/sows, goats sheep, heifers/gilts, castration, dehorning and animal identification. Livestock Products like milk, ice cream, ghee mutton, pork chees beef, skin and hides etc., their production and handling will be covered.

**Practical** will focus on, vaccination, identification, dipping, spraying, drenching, castration, dehorning, age and weight determination, body conditioning score, age determination, identification, record keeping and pregnancy diagnosis. Visits to livestock; sheep, goats etc., and critical Analysis of various types of managerial practices,

**BSGR 2217 Soil Fertility and Plant Nutrition**

The course covers soil chemistry and physics, essential plant elements, criteria for essentiality of plant elements, basis for classification of mineral elements. It covers soil fertility status of E. African countries, factors affecting plant growth, plant nutrients, and forms of nutrients taken by plants, functions of plant nutrients and their deficiency symptoms. Organic and Inorganic fertilizers, concept of bio-fertilizer and its applications, loss of plant nutrients, cycles of major plant nutrients, soil organic matter, C: N ration and its role in organic matter mineralization and immobilization, composting process, soil acidity and liming. Practical will focus on Soil sampling, determining soil pH, Organic matter, soil air, Soil moisture content, Bulk and particle density, qualitative tests for plant nutrients e.g.  $\text{NO}_3^-$ ,  $\text{SO}_4^{2-}$ ,  $\text{PO}_4^{3-}$  as well as qualitative determination of nitrogen and organic carbon. Field survey to identify crops with Nutrient deficiencies, different types of fertilizers and how they are applied



**BSGR 2218 Crop Protection**

This course will introduce students to pest management, Pathology, and weed science. The pest management will cover insect pests, Rodents, animals and Birds. Under insect pests, orders that are of economic importance, Pest identification, classification, pest outbreak, crop losses to due pest and concept of economic threshold will be covered. Emphasis will be put on pest that attack crops of economic value (coffee, cotton, maize Rice, beans bananas tea Groundnuts etc). Management will concentrate on IPM, chemical biological, cultural and mechanical methods. Pathology will cover concept of disease, disease development, symptomatology, signs, causes of crop diseases, yield losses and management (chemical, cultural, biological, IDM etc) The course will finally look weeds, their identification characteristics, persistence ecology and their control methods.

**Practical work:** Students will survey weeds, collect and make weed albums, practical management using various classes of herbicides & other methods of weed control, identify common plant pests of important crops and their control. Pathology practical will include Pathogen identification from diseased crops (Microscopic), Field identification of diseased crops (using symptoms and Signs).

**BSGR 2219 Farm Power and Machinery**

The course covers machinery and levels of mechanization i.e. Level 1, level 2 and level 3. Level 1 will include simple hand tools, their uses and maintenance. Level 2 include animal drawn/pulled (powered) implements, parts of implements with their functions and maintenance. Success of farm power in some parts of Uganda, training of oxen, factors affecting power outputs of draught animals. Level 3 include tractor as a farm machinery, engine system. Farm implements for both primary and secondary cultivation (disc, mould board, ox-plough) and their uses. Harvesting equipment, plant and animal protection equipment.

**Practical work:** Students will look at the different parts of internal combustion, engine, tractor driving, Hitching equipment on tractor, yoking oxen and trackson, general identification and use tools, machines and equipment found on the farm. Field trips to garage and mechanized farms

**BSGR 2220 Special Projects in Machinery & Engineering**

The course is designed to expose students to general practical skills in the area of Agricultural mechanization. At the end of the course, students will come up with an innovation (model, local technology, technique, skill, etc) towards problem solving in agricultural machinery and engineering for assessment. Emphasis in this course is put on tractor system, machines and farm implements, tractor implements e.g. (disc plough, disc harrow, planter, sprayers etc.), ox-plough, micro project for problem solving in Agricultural mechanization. Innovation and problem solving in animal science project

**BSGR 3121 Poultry Production**

This course is designed to introduce students to History, economic importance, and statistics of poultry (Turkey, Chicken {layers, Broilers, locals}), types of vices and control, principles of poultry biology and their applications to modern poultry production. Topics include anatomy, physiology, reproduction, incubation and embryonic development, breeding and genetics, nutrition and feeding, parasite and disease control, housing and environmental control, systems of poultry management, poultry and egg products, and the structure of the poultry industry.

**Practical;** will include; Litter management, de-beaking, incubation, brooding, determining egg quality (candling), fumigation, selection and care of hatching eggs, incubator operation, sexing of chicks, packing of chicks Weight determination, dressing birds, poultry waste management in and study trip to a credible poultry enterprise. Eggs to determine the quality, artificial incubation, Skeleton of an animal and poultry



### **BSGR 3122 Pasture Agronomy and Agroforestry**

This will cover basic terminologies in pasture agronomy, grass lands, types of grass lands, classification, identification, distribution and management of nature and some pastures. The course will also cover forage conservation and processing. The agro forestry will cover agro forestry systems, their importance and management, multipurpose trees, their functions. Cost benefits analysis of agro forestry.

**Practical;** work will be on establishment of fodder banks, making hay and Silage, participating in raising tree seedlings in Nursery beds. Field trips to farmers fields practicing Agro-forestry.

### **BSGR 3123 Plant Biotechnology**

The course introduces the student to the field of biotechnology, general concepts of biotechnology, cell culture, cell totipotency, somatic embryogenesis, tissue culture, laboratory requirements and general techniques of tissue culture. DNA recombinant technology, gene cloning, production of GMOS, patents in GMOS, genetic basis of biotechnology, biotechnology in plant protection, triploid production, molecular diagnostic of plant pathogens. This course can be supplemented with laboratory work on tissue culture, DNA culturing and DNA recombinant technology, Aspects of DNA isolation, using PCR and Tissue culture practical at a recognized Agricultural Research Institute.

### **BSGR 3124 Animal Improvement and Health**

Methods of animal improvement i.e. induction, selection and breeding. Concept of induction and domestication, selection attributes of farm animals and methods of selection. Elements of physiology, epidemiology, mineral biology, and nutrition and production management are integrated in health management approach emphasizing disease prevention. Major Topics will be introduction to disease, health management anserine, calf health, heifer health, immunology and vaccination, metabolic disorders, exotic and zoonotic diseases, reproductive diseases. Breeding will cover genetic aspects of Mendelian genetics, chromosomal theory, heterosis, inbreeding depression, breeding methods, and use of biotechnology in animal improvement. Use of biotechnology/assisted reproductive technologies like multiple ovulation and embryo transfer (MOET), artificial insemination (AI) and non-pregnancy diagnosis.

Practical will focus, on identification and classification of animal parasites, Involving students in the management of parasites and diseases. Phenotypic assessment of healthy and diseased animals, dairy and beef animal, diagnosis of mastitis.

### **BSGR 3225 Agricultural Economics, Farm Management & Accounting**

The basic economics will cover: principles of economics, market forces of demand and supply, factors affecting demand and supply, elasticity of demand and supply, consumer behavior, equilibrium, price theory, fluctuation of prices of agricultural products, agricultural marketing, international trade, economic growth and development, population growth and its effect on agriculture, land tenure, reform and modernization of agriculture. The production economics will cover: basic principles of production, inputs for production, labor supply in production, production function, costs of production, production frontiers, economic return (constant, increasing, decreasing), returns to scale, economic efficiency, economic optimum, comparative and absolute advantage, optimum resource combination, factor-factor and product-product combination, risks and uncertainties, diversification and specialization. The farm accounting will cover: nature and scope of management, principles of management and objectives of management, farm planning, farm records, farm inventory, books of account (balance sheet, profit and loss account, and cash flow statements), budgeting, asset evaluation, analysis and interpretation of financial statement.

### **BSGR 3226 Post-Harvest Handling and Technology**

The course examines the quality attributes of handling, storage, packing of agricultural crops. It covers general post-harvest physiology, concept of food pipeline and its implications, post-harvest losses in horticultural crops and the role of hormones in post-harvest handling, aspects of commercial packaging, post-harvest handling technologies of agricultural crops in Uganda; modern and local appropriate post-harvest handling technologies and their efficiencies and deficiencies.

**Practical:** will focus on, damages on crop produce by pests, pest management on storage, mechanisms of slowing and enhancing ripening in fruits (ethylene). Students will grow some crops in demonstration farm and look at maturity indices for the crops grown.

### **BSGR 3227 Principles of Plant Breeding and Crop Improvement**

This course covers the fundamental principles and theories utilized in the science of plant breeding and cultivar development and the role of breeding in crop improvement. The course will cover Historical perspectives and importance of plant breeding, General biological concepts, germplasm issues, genetic analysis in plant breeding, Tools in plant breeding, classic methods of plant breeding, selected plant breeding objectives, cultivar release and commercial seed production, international breeding efforts, emerging concepts of plant breeding, breeding selected crops. Use of markers in breeding and wide hybridization, genetically modified crops and their cons and pros

**Practical;** will focus on Flower morphology and anatomy of cross pollinated and self-pollinated plants, emasculation, Field trips to Research institutions where there are breeding programs.

### **BSGR 3228 Farm Structures and Buildings**

This course describes functions and classification of various farm structures and buildings materials for construction. Farmstead planning and designing farm storage structures such as silos and cribs, livestock buildings, processing structures according to environmental and physiological factors. It will also look at various fences on the farm, cattle dips, spray race and crush. It will also look at engineering materials and their characteristics and how they can be improved. Practically students will be involved in aspects of wood & timber preservation, making bricks and blocks, erecting fences, construction of crushes.

## **b). BIOLOGY COURSES**

### **BSBI 1101 Cells and Molecular Biology**

This course integrates concepts from chemistry, biophysics, electron microscopy and genetics to present the cell as the functional unit of life. Specific topics emphasized include organization and function of cellular organelles. The course describes intracellular components of both prokaryotic and eukaryotic cells. Other topics include; Biological molecules, replicons and DNA replication and recombination, gene expression and regulation in prokaryote and eukaryotes, operons, satellite DNAs, and protein synthesis and trafficking and signal transduction.

### **BSBI 1102 General Techniques in Biology & Microscopy Practical**

This course covers techniques of making Biology solutions, improvisation techniques, techniques in collecting Biology specimens, maintenance and care of equipment, designing biology experiments and projects, safety in the laboratory, laboratory ethics, stating and testing hypotheses, report writing and data presentation skills, and techniques in specimen preservation. Other topics include microscopic examination of animal and plant cells, cell division and techniques in cell culturing.

### **BSBI 1203 Plant Diversity, forms & Biosystematics**

This course unit will cover anatomy, histology and classification of plants. It deals with the study of structure and histology of angiosperm roots, stems, leaves, flowers, fruits and seeds. It also covers the path of plant development from male and female gametophytes, endosperm development, embryogenesis, seed germination and the structure and development of the shoot apex. The role of plant growth regulators and hormones in plant development is considered, including their discovery, extraction, and mode of action, location and economic importance. Other topics will include the experimental control of plant growth movements, floral initiation and flowering, fruit ripening, development of tubers and bulbs and dormancy in seeds. Taxonomy/classification; evolution and units of classification; principles and practices of plant and animal taxonomy emphasizing the phylogenetic relationship and evolutionary features in classification; artificial and natural classifications; significance of plant and animal taxonomy and its relationship with other biological disciplines. Detailed study of selected, locally important families of plants and animals with emphasis on evolution and variation patterns will be covered.

### **BSBI 1204 Invertebrate Zoology**

This course entails diversity of invertebrate animals; their characteristics and adaptations to the environment. Due to the importance of protists, they are also considered and taught in this course. The lectures illustrate the increasing complexity in morphology and reproductive features. Emphasis is put on beneficial aspects (food, environmental indicators, components of food chains and nutrient recycling in ecosystems, biological control, tourism) and harmful ones (pests, parasites, disease vectors).

### **BSBI 2105 Animal Forms, Histology and Development**

In this course, students will study animal morphology and anatomy of selected phyla including phylum Chordata. Topics to be discussed are; gametogenesis, fertilization, and development stages in animals. Other topics include; animal tissues, internal structures of animal organs and significance of different morphological and anatomical forms.

### **BSBI 2106 Principles of Microbiology & Immunology**

This course involves the history and scope of microbiology, microscopy, characterization, classification, identification, physiology, economic importance of microorganisms. Included will be a discussion of the role of antibiotics in medicine and the potential consequences of improper antibiotic use. This course will also cover basic concepts of immunology, such as the history of immunology, innate and acquired immune response, the role of lymphocytes, the antigen-antibody response, classes and functions of immunoglobulin, the role of the immune system in tissue transplantation, hypersensitivity reactions, autoimmune and immunodeficiency diseases.

### **BSBI 2107 Enzymology and Biochemical Practical**

This course covers properties of enzymes, effects of different factors (such as temperature, pH, concentration, inhibitors, etc.) on enzyme action, and enzyme extraction.

### **BSBI 2208 Anatomy and Physiology Practical**

This course covers techniques in dissection of small mammals (rat, rabbit), amphibians and insects. Other topics covered include; food tests, osmosis and diffusion in living and non-living tissues, factors affecting photosynthesis, fermentation, gaseous exchange, and anatomy of plant organs. Also includes germination experiments.

### **BSBI 2209 Plant Physiology & Development**

The course covers the study of primary plant metabolic processes, including the movement of materials in and out of plant cells and within plants, growth, embryogenesis, autotrophic/photosynthesis, cellular respiration, mineral nutrition, Nitrogen metabolism and hormones. Other topics include environmental plant physiology such as effects of temperature, salt and water stress and the implications of globally rising carbon dioxide.

### **BSBI 2210 Animal Physiology**

This course is a systematic approach to the integrated study of animal physiology. It covers the structure and function of the animal body, cells and tissues, as well as the skeletal, muscular, nervous, endocrine, circulatory, digestive and urinary systems. Thermoregulation and adaptations of ectotherms and endotherms are included.

### **BSBI 2211 Biostatistics**

This is a practically oriented course to introduce Biology and Agriculture students to methods of statistical analysis, which will cover statistics of central tendency and dispersion, probability, correlation, regression, hypothesis testing, t-test, analysis of variance non-parametric tests and Chi Square. The students will use standard computerized methods, as well as re-sampling methods.

### **BSBI 3112 Genetics**

This course covers cell division, classical and molecular genetics including Mendelian genetics and its extensions, chromosome mapping, DNA structure and effect of its composition, RNA and protein activities of various genes, mutations and variations, population genetics and an introduction to developmental and cancer genetics.

### **BSBI 3113 Ecology & Evolution**

This course will examine the basic principles governing relationships among organisms and between organisms and the physical and chemical environment. The material of this course includes an analysis of abiotic-biotic interactions, principles of population and community ecology and ecosystem processes such as biogeochemical cycles and energy flow. The principles of ecology will be brought to bear on the conservation of biodiversity and wise use of natural resources.

Studies from the naturalistic worldview offer explanations in contrast with that from divine revelation. The emphasis of this course is to learn how the biological and geological data related to earth history and the origin of life can be harmonized with divine revelation. Specific topics include the nature & limitations of science, scientific revolutions, theories of the origin of life and the geological strata, speciation, catastrophism, paleontology, and geochronology. Other areas concerning the relation between science & religion, such as sociobiology, stewardship of the earth and other issues may be discussed.

### **BSBI 3214 Entomology and Parasitology**

This course is a taxonomic and evolutionary approach to the class Insecta and other arthropods of importance to agriculture, medicine, and veterinary sciences in East Africa. Insect biology, basic anatomy, physiology and ecology will be discussed. This course also includes a discussion of the major parasites of man and domestic animals, including their classification, morphology, life history, physiology, transmission, geographical distribution and control.

### **BSBI 3215 Field Biology of East Africa**

This course involves the identification and ecology of the native species of East Africa, with emphasis on Uganda, Tanzania or Kenya. Students will learn how to identify the basic groups of organisms through the use of identification guides and observation. This

is an intensive holiday course in which students will travel to natural areas in one of the countries to observe and study wild flora, fauna and habitats. This is a course in which learning from both lecture and practical experience will take place in the field.

#### **BSBI 3216 General Mycology and Phycology**

This course is a survey of the classification of algae and fungi, their characteristic features, morphology, life histories, ecological roles and economic importance. As fungi and algae are organisms of two separate Kingdoms, they will be treated separately. This course includes two lectures and two hours of practical per week.

#### **BSBI 3217 Environmental Issues**

This course is a survey of current environmental issues that impact the biota, human development and the global ecosystem, our life support system. Specific topics include, but are not limited to aquatic and atmospheric systems and pollution, global change, population and resources, and biodiversity issues. Environmental stewardship from a Christian perspective will be emphasized.

#### **BSBI 3218 Freshwater Biology**

In this course we will examine topics dealing with the biological and ecological characteristics and economic importance of surface waters, including lakes, streams and wetlands. Specific topics will include light and heat in aquatic environments, dissolved gasses, nutrients, phytoplankton and periphyton dynamics, consumer dynamics and the impact of human society on natural surface waters. Fishes of economic importance and fish culture in Uganda and East Africa will be studied.

#### **BSBI 3219 Mammalogy**

This course is the study of the biology of mammals. Topics include the morphology, taxonomy, life history, distribution, ecology and behavior of mammals. An extended field trip will include the observation, identification and collection of mammals where allowed by law.

### **c). CHEMISTRY COURSES**

#### **BSCH 1101 Basic Physical Chemistry**

This course will explore the basic principles of physical chemistry including stoichiometry, the phases of matter, chemical equilibrium, and electrochemistry. Ideal gas laws, kinetic theory of gases, non-ideal behavior of gases, molecular weight from vapor density, Van der Waals equation. Liquefaction of gases: Andrew's experiments, critical constants and their prediction using the Van der Waals equation. Phase Rule: One-component systems: water, sulphur. Two-component systems: solubility of gases in liquid, Henry's law, effect of temperature on solubility, ideal solubility of non-ionic solids in liquids. Homogeneous liquid mixtures. Raoult's law and deviations: partial miscibility, Immiscibility, partition between solvents. Boiling point vs composition diagrams, rectification, HETP, steam distillation. Choice of Standard states for non-ideal solution, Gibbs-Duhem equation. Determination of activity coefficients for non-electrolyte solutions. Thermodynamics of mixing, excess functions, regular solutions. Colligative properties of solutions: Vapor pressure lowering, elevation of boiling point, depression of freezing point, osmotic pressure. Phase diagrams for two-component solid-liquid systems. Introduction to three- component systems

**BSCH 1202 Basic of Inorganic Chemistry**

This course explores the fundamental properties that govern the way elements behave. Topics include a discussion of atoms, molecules and ions; atomic structure; the Periodic Table; General survey of the historical background to the periodic table of the elements, including the work of Dalton and Mendeleef. Division of the periodic table with electronic configuration of the elements. Energy level diagram and Aufbau principle. Brief discussion of the position of s, p, d and f-blocks, and super actinide elements in the periodic table. The periodic trends e.g. covalent and ionic radii, electronegativity (calculation by the methods of Pauling, and Alfred Rochow), oxidation-reduction potentials, metallic and non-metallic properties across the period and down the group. Comparison of four main types and classification of bonding forces. Intermolecular forces; types, effects on properties, hydrogen – bonding. VSEPR theory up to AB<sub>3</sub>; effects of lone pairs, multiple bonding, bond angles, bond lengths, dipole moments. MO theory for homonuclear diatomic from H<sub>2</sub> to F<sub>2</sub>, bond order, sigma and orbital. VB theory; hybridization of orbitals.

**BSCH 1203 Basic Organic Chemistry**

This course will cover the Structure of the carbon atom: molecular orbital theory, idea of the “hybridized” carbon atom, atomic orbital, molecular orbitals, and bonds illustrated with methane, ethene and ethyne. Organic aliphatic organic compounds treated in a mechanistic manner. Breaking and forming of bonds, free radicals, carbonium ions, carbonions, and distribution of charge in bond, inductive effect, and dipole moments.

Alkanes: Synthesis, Combustion, halogenation, nitration, Conformations in organic compounds e.g. Rotational conformation, eclipsed and staggered, sawhorse and Newmann conventions. Alkenes: Cis-trans isomerism, synthesis (dehydration of alcohols, dehalogenation and elimination reactions), electrophilic addition, stability and re-arrangement of carbonium ions, oxidation, reduction, and polymerization. Alkynes: synthesis, electrophilic addition, reduction, oxidation, acidity of terminal hydrogen and its application in organic synthesis, detection of alkynes. Alcohols/Alkyl halides: synthesis, substitution reaction (S<sub>N</sub>1 and S<sub>N</sub>2), re-arrangement of carbonium ions, eliminations reactions (E1) and (E2). Grignard reagent: preparation and applications in organic synthesis. Carbonyl compounds (aldehydes and ketones): Carboxylic acids and Amines/amides.

**BSCH 2104 Bonding & Periodicity**

Dipole moment, VSEPR theory, application to molecules with lone pairs, double bonds, three-center bonds; effect of electro negativity. Bonding theories; Valence bond theory, Molecular orbital theory, LCAO-MO treatment of diatomic molecules, polyatomic molecules- PH<sub>3</sub>, CH<sub>4</sub>, NH<sub>3</sub>, H<sub>2</sub>O, delocalization and comparison of the three bonding theories. First and second row anomalies, diagonal relationships, etc. general survey of the descriptive chemistry of hydrogen, alkali metals, alkaline earth metals, group II-P elements, and boron hydrides will be covered. The descriptive chemistry (hydrides, halides, oxides, nitrides, sulphides) of the following three groups: Group IV-E elements, Nitrogen group elements, oxygen group elements. The chemistry of halogens, pseudo-halogens, inter-halogens, etc., the chemistry of zero group elements. Discussion of halides, oxides, sulphides, and methyl derivations of all the elements of periodic table from the point of view of periodicity

**BSCH 2105 Analytical Chemistry**

This course will involve discussion of the sampling methods used in analytical chemistry and estimation of errors. Titration and gravimetric techniques, ultraviolet - visible and infrared spectrometry, gas-chromatography, high pressure liquid chromatography, electrophoresis, ion exchange analysis and solvent extraction techniques will be described.



Specific topics include the various types of photometers and their differences, emission and absorption spectroscopy, non-flame devices such as, characteristics of IR absorption bands and chromophoric groups, Beer's Law and its limitations, quantitative analysis of mixtures and photometric titrations, flame photometric analyses, electrochemical methods such as conductivity, potentiometry and polarography.

### **BSCH 2106 Polyfunctional and Cyclic Aliphatic**

Dienes: definitions: 1,3-diene. Methods of preparation and nomenclature. Molecular orbital treatment of conjugated dienes. Spectral data, bond lengths, heats of hydrogenation and stability. The allylation, 1,2- and 1,4- addition reactions of dienes. Kinetic and thermodynamic control. 1,4-cycloadditions of dienes. The diels-Alder reaction: mechanism, stereochemistry, and application; 1,2-cycloaddition reactions. Polymerization: examples of useful polymers; mechanism: free radical, cationic, anionic and coordinate. Glycols: nomenclature, preparation, and reactions, including pinacol-pinacolone rearrangement and periodic acid oxidation. Epoxides (oxiranes): nomenclature, preparation, and reactions, including acid-catalyzed and base-catalyzed cleavage. Epoxy resins. Dicarboxylic acids: thermal rearrangement and cyclisations, cyclic imides, Gabriel synthesis and the Dieckman condensation. Application of acyloin condensation acetal formation. Hemiacetal and hydrogenation reactions in the multistage synthesis of civetone. Polycarbonyl compounds: 1,2- and 1,3-dicarbonyl compounds. Preparation and applications of malonic ester and beta-keto esters in organic synthesis. Tautomerism, with special reference to the trail systems, including nitroso-oximino, amino-anidol, and azo-hydrazine systems. Mode of Delivery: Lectures, assignments, tests and tutorials.

### **BSCH 2207 Chemical Thermodynamics**

Thermodynamics I Review: Properties of ideal and real gases. Basic thermodynamics: heat, work, equilibrium, thermodynamically reversible and irreversible processes, state functions, and first law of thermodynamics. Heat capacities of gas, isothermal and adiabatic expansion. Joule-Thomson effect, liquification of gases. Thermochemistry: laws of Hess and Kirchoff, standard enthalpies, bond energies. Carnot's cycle, entropy. Second and third laws of thermodynamics. Entropy and probability. Thermodynamics II Free energy: variation with temperature and pressure, Gibb-Helmholtz equations. Intensive and extensive state functions, partial molar quantities and their measurement. Dependence of chemical potential on pressure and mole fraction. Non-ideal gases: fugacity and its measurement. Chemical equilibrium: reaction isotherm, equilibrium constant, and Van't Hoff equation. Factors affecting position of equilibrium: Le Chatelier principle. Calculations involving equilibrium constants and standard free energies. Thermodynamic conditions for equilibrium between phases. Clausius-Clapeyron equation.

### **BSCH 2208 Chemical Kinetics**

Kinetics I Rate equations for zero, first, second and third order reactions. Determination of reaction orders: Initial rate, half-life, isolation, and integrated equation methods, Experimental methods: Examples of zero order, first, second, and third order reactions in gas and solution phases. Steady state approximation. Kinetics of opposing, consecutive and parallel reactions. Fractional order reactions. Energy of activation, the Arrhenius equation. Introduction to theories of gas-phase reactions. Collision theory, transition state theory. Unimolecular reaction theory. Introduction to reactions in solution and homogeneous acid-base catalysis. Kinetics II Reactions in solution: Effect of solvent and ionic strength. Homogeneous acid bases catalysis, heterogeneous, enzyme reactions. Chain reactions: general introduction,

explosion limits. Free radicals: production, detection, and general applications. Photochemical reactions: general principle, laws fluorescence, phosphorescence, chemiluminescence. Excited states. Flash photolysis. Hydrogen chloride reaction: Detailed treatment with comparison to thermal reaction. Photosensitization and photosynthesis.

### **BSCH 2209 Aromatic Chemistry**

This course deals with the arenes, aromatic, non-aromatic and antiaromatic compounds. Reactions of commonly encountered compounds with benzene as an aromatic nucleus. The conditions that influence substitution reactions in benzene are covered. Specific topics include aromaticity and its effects on reactions, benzene substituent groups' effect in electrophilic aromatic substitutions, ortho to para ratio in electrophilic substitutions. Nucleophilic aromatic substitution reaction involving the mechanisms, Aromatic carbonyl compounds, aromatic amino compounds and mechanisms of conversion to diazonium salts, reactions of diazonium salts. Fused benzene compounds such as naphthalene, anthracene, and phenanthrene will be investigated and contrasted in terms of synthesis, properties and reactions.

### **BSCH 2210 Physical Chemistry Practical**

**Practical I;** The experiments illustrate how physical chemistry data are obtained and correlation between various data. It will expose the student to the use of common instruments for physical chemical measurements. Ability to handle enthalpy and two - phase equilibrium calculations, reaction rates, diffusion and partial molar quantities will be emphasized.

**Practical II;** More advanced practical on physical chemistry. Emphasis will be given to fundamental principles, the basis of applied subjects, e.g. industrial and engineering chemistry, Ability to handle enthalpy and two - phase equilibrium calculations, reaction rates, diffusion and partial molar quantities will be emphasized.

### **BSCH 3111 Transition Metal & Nuclear Chemistry**

Introduction: general characteristics, emphasis on variable oxidation states, Paramagnetism and diamagnetism, color. Theories of transition metal complex formation: molecular orbital theory and ligand field theory & crystal field theory; will be studied. Nature and stability of transition complexes: application of transition metal complexes in chemistry. Descriptive chemistry of the first series elements, concentrating on structure and reactions of oxides and halides. Short comparative treatment of the second and third transition series. The lanthanide contraction, redox potentials, chemical effects of the magnetic and spectral properties, and a brief descriptive chemistry of some elements. Comparison of lanthanides and actinides.

Nuclear Chemistry: Nuclear structure, nuclear stability, detection and measurement of radiation, kinetics of radioactive decay, Fission, fusion and nuclear energy, applications of radiochemistry.

### **BSCH 3112 Inorganic Chemistry Practical**

**Practical I** This course exposes students to essential tools for chemical analysis. It will emphasize instrument manipulation skills, volumetric analysis techniques and quantitative analysis. Accurate observation and recording of scientific data will be emphasized. One 4-hours experiment in each the following areas is expected: stoichiometric measurements, neutralization reactions, standardization of acids, quantitative analysis of impure samples and precipitation reactions.



**Practical II** Emphasizes simple preparation of inorganic chemicals, complexometric titrations, ion exchange resins, potentiometric titrations with ironclads, oxidation-reduction, argentometric and iodometric titrations. Four hours of laboratory work is expected for a student every week.

### **BSCH 3113 Polymer Chemistry**

This course will cover the fundamentals and physico-chemical aspects of polymerization and its applications to modern science. Specific topics include the classification of polymers; structure of condensation polymers; functions of polymers; natural, synthetic, free radical, emulsion, ionic and solution polymerization types; kinetics of polymerization; copolymerization; solution polymerization, including methods, theories and mechanism of methyl methacrylate polymerization; distribution of molar mass, fractionation, light scattering, sedimentation viscometry and osmometry.

### **BSCH 3114 Colloidal Chemistry**

The course deals with systems constituting small particles of one substance distributed in another. Topics include: thermodynamics of surface tension, properties of solutions and colloidal systems, surface forces, detergency, adsorption of gases and liquids.

### **BSCH 3115 Medicinal Chemistry**

The course focuses on the drugs, drug structures, modifications and the biochemical pathways through which drugs exert beneficial effects. Topic include: history and Bionomics of medicinal chemistry; drug absorption, distribution, transformation; receptors and drug-receptor instructions; useful drugs like analgesics, antibiotics, etc; immune response and fertility; blood glucose and anticoagulants; antiviral agents; HIV and chemotherapy; drug addiction, prevention and control; herbal medicine as an alternative medicine and test for biological activity.

### **BSCH 3116 Environmental Chemistry**

This course explores environmental issues from the point of view of chemistry. Specific topics include properties of water, aquatic chemistry, oxidation – reduction phenomena, water pollution and water treatment, inorganic and organic pollutants, greenhouse gases and global warming, waste management, energy resources, mitigation measurement against chemical pollution, and conventions, protocols and agreements to protect the environment.

### **BSCH 3217 Organic Spectroscopy**

Various spectroscopy techniques, such as infrared, ultraviolet, nuclear magnetic resonance and mass spectrometry will be discussed and used to identify functional groups in compounds. The combined spectral data of a given unknown compounds be evaluated to identify the actual structure of the unknown compounds. This course will illustrate how the electromagnetic spectrum, magnetic properties of atomic nuclei and the ionization process can be used to identify, determine structure and properties various compounds and their functional groups. This course will emphasize problem solving and interpretation of spectral data from techniques above.

### **BSCH 3218 Organic Chemistry Practical**

**Practical I;** This course introduces students to practical aspects of organic chemistry. Topics include determination of physical constants, synthesis and purification simple organic molecules, identification of functional groups, reactions involving different organic systems, analysis and separation of organic compounds using different methods such as precipitation and chromatographic processes.

**Practical II;** More advanced aspects of synthesis and purification of organic compounds. It will deal with reactions involving different organic systems, extraction of natural products, isolation and analysis of organic compounds will be practiced

### **BSCH 3219 Sugar & Protein Chemistry**

This course concerns the chemistry of sugars and proteins. Specific topics include carbohydrates, their configuration, classification and Killian reaction applied to glyceraldehyde; tetroses, aldopentoses and related ring structures; reactions of monosaccharides; actions of acids and alkalis; determination of ring sizes of monosaccharides, including glycol-splitting reagents; structure and determination of di-, tri-, and tetrasaccharides; amino acids, their configuration, nomenclature, synthesis and dipolar properties; analysis of amino acids, their reaction with nitrous acids, the ninhydrin test, and mechanisms involving sulfur containing amino acids; chemistry of peptides and proteins, structure and polymerization; isolation of proteins from natural products, elucidation of protein structure, hydrolysis and identification of products, determination of the amino acid sequence; difficulties in structure analysis of proteins, synthesis of peptides and proteins; and 3-D structure; polysaccharides, nucleosides and nucleotides, 3-D structure of RNA and DNA.

## **d) MATHEMATICS COURSES**

### **BSMT 1101 Calculus I**

This course introduces the first major branches of Calculus: functions, limits and continuity, differentiation, rules and theorems for derivatives, inverse functions and applications of differentials to approximation.

### **BSMT 1202 Linear Algebra**

The course introduces students to matrices, such as determinants, inverses properties of determinants and inverses; linear systems of equations: existences of solutions to linear systems, solutions of homogenous systems, nature of solution of homogenous systems; vectors: vector spaces, linear transformations and systems of linear equations. Using systems of linear equations, the course explores mathematical properties of a vector space such as linear independence, bases and dimension. Linear transformations are studied as relationships between vector spaces leading to the rank-nullity theorem. The course also introduces students to Eigen spaces and diagonalization.

### **BSMT 1203 Calculus II**

It introduces the second major branch of Calculus i.e. Integral Calculus. It deals with the accumulation of quantities such as distance travelled or area under a curve. The two branches are inversely related by the Fundamental Theorem of Calculus. Improper Integrals will be studied and many applications to arc length, area under a curve, surfaces and volumes of revolution.

### **BSMT 2104 Elements of Probability & Statistics**

This introduces students to basic set theory, sample spaces and algebra of events and defines probability and its axioms. It also covers conditional probabilities, independence of events, mutually exclusive events, Bayes' theorem and application of combinatorial theory. In addition, random variables and probability distributions are studied. It ends with introduction to the sampling theory and statistical inferences.

### **BSMT 2105 Real Analysis I**

Real Analysis deals with the analytic properties of real functions and sequences of real numbers, sequences of real numbers i.e. limits, convergence of sequences of real numbers

and other properties of sequences. Series i.e. sequences of partial sums, divergence and convergence tests for series of real numbers, special series such as power series and their applications. Differentiability and smoothness of real-valued functions

### **BSMT 2106 Differential Equations I**

This course introduces the student to various methods for solving first order and second order differential equations and difference equations. The course also covers methods used in power series solutions for the first and second order differential equations and linear equations of  $n$ th order. Systems of differential equations are also covered. Applications in Physics, Ecology, Environment and Biology are given. Topics covered include first order linear equations, second order linear equations, homogeneous equations with constant coefficients, equations with variable coefficients, the Wronskian, order reduction, variation of parameters, and method of undetermined coefficients. Other topics include power series solutions of first and second order equations and linear equations of  $n$ th order. Examples of special functions obtained as solutions of ordinary differential equations will be given. Additional topics include systems of first order equations, reduction of  $n$ th order to a system of first order equations, the existence and uniqueness of solutions and an introduction to difference equations

### **BSMT 2207 Classical Mechanics**

This course covers mass, momentum, force, Newton's laws of motion, work, energy, power, conservative forces, potential energy, impulsive forces, rectilinear motion of a particle, uniformly accelerated motion, simple harmonic motion, damped and forced oscillations, elastic strings and springs, changing mass problems, problems in two and three dimensions, motion under gravity, constrained particle motion, resisted and oscillatory motion, motion on curves and central orbits.

### **BSMT 2208 Probability Theory**

This course covers probability spaces, random variables together with their probability density functions. Expectation and variance of random variables will be discussed. Moment generating functions and probability generating functions will be covered. The bivariate and univariate distributions. Functions of random variables and their probability distributions are discussed.

### **BSMT 2209 Numerical Analysis 1**

Numerical analysis is an approach to solving complex mathematical problems using simple approximating operations and carrying out an analysis on the resulting errors. In this course, the following areas of Numerical analysis will be covered: Numerical integration techniques such as the trapezium rule, midpoint rule and Simpson's rule, methods of solving nonlinear equations such as bisection method, Newton-Raphson's method, Secant method etc; linear and polynomial interpolation and numerical differentiation.

### **BSMT 3110 Complex Variables**

Complex Variable is the branch of mathematics that deals with functions of complex numbers, that is, functions whose independent and dependent variables are both complex numbers. The course extends concepts from the analysis of real valued functions to complex functions. Complex Analysis is of enormous practical use in applied mathematics and in Physics. Emphasis is put on, the complex plane, Limits, continuity and differentiability of complex functions. Analytic functions, Cauchy's theorem and Cauchy's integral formula, Laurent series, singularities and residues are also looked at.

**BSMT 3111 Abstract Algebra**

This is a pure mathematics course meant to develop the ability to make conjectures and construct rigorous mathematical proofs. Emphasis is put on the algebraic structure known as a group and its properties. The course covers elementary set theory; relations, functions and binary operations. Group theory: group axioms, sub groups, cyclic groups, lattice diagrams, co-sets, Lagrange's Theorem, permutations, cycles, transpositions, symmetric and alternating groups, dihedral groups, normal subgroups, centralisers, normalisers, normal subgroup, homomorphism, kernel, image, quotient groups, Homomorphism Theorems, isomorphism theorems, Cauchy's Theorem, Sylow's Theorems, and simple and solvable groups. Ring theory: Definitions and examples, subrings, Ideals, Quotient Rings, Integral domains, Homomorphism and isomorphism theorems and Fields.

**BSMT 3212 Differential Equations II**

This is an applied mathematics course in which advanced methods are used to solve problems in Physics, Engineering, Environment, Ecology, Epidemiology and other fields. This course is divided into major topics such as; First order partial differential equations: their characteristics, auxiliary equations, boundary conditions and formation of PDE, non-linear first order PDEs, and separation of variables; second order partial differential equations covers their characteristic equations, constant coefficients, boundary conditions, separation of variables, hyperbolic, parabolic, and elliptic equations; Application of partial differential equations: covers the wave equation, heat and diffusion equations, and Laplace equations; Laplace transform and power series: existence of Laplace transforms, elementary transform pairs, Laplace operation rules and applications of Laplace transforms in solving ordinary differential equations; Fourier series: Fourier transforms, Fourier cosine and sine series, convergence of Fourier series, integration and differentiation of Fourier series and application of Fourier series to differential equations. Finally, Boundary value problems: solutions by Fourier series, solutions by Bessel and Legendre functions.

**BSMT 3213 Numerical Analysis II**

This course is continuation of the Numerical Analysis I course. The course covers the following areas: methods of solving systems of linear equations: Gaussian eliminating method, matrix factorizations, Orthogonal functions, Gauss Quadrature rules, approximation theory, and numerical solution of ordinary differential equations and solutions of partial differential equations.

**e) PHYSICS COURSES****BSPY 1101 Mathematical Physics**

This is an introductory course intended to give students necessary mathematical tools for understanding the concepts in Physics. After a brief review of complex numbers, the student will be introduced to methods of solving linear equations, partial derivatives and their applications. Vector analysis will be introduced with special emphasis on applications. Line integrals, Green's theorem in plane, the divergence theorem, Gauss's law and Stokes theorem will be studied.

**BSPY 1102 Physics Practical 1**

Students in this course will have laboratory experiments concerning translational mechanics, rotational mechanics, heat and thermodynamic properties of matter, graphical and analysis of errors. This will include scientific report writing.

### **BSPY 1203 Properties of Matter, Heat and Thermodynamics**

This course introduces properties of solid, liquids and gases. It deals with forces and energy between atoms and between molecules, and with mechanical and thermal properties. Forces and energy interaction between atoms and between molecules in liquids and solids; thermal properties and transport phenomena in gases will be covered. It also covers: equation of state for an ideal gas, basic heat transfer, kinetic theory, the laws of thermodynamics; and Maxwell's distribution of velocities.

### **BSPY 1204 Electricity & Magnetism**

This course introduces general concepts of electricity and magnetism to the undergraduate student. It covers electrostatics, AC and DC circuits, and electromagnetic effects. The course prepares students for more advanced studies in electromagnetism.

### **BSPY 2105 Classical Mechanics**

This course introduces students to the basic concept of geometry and space, frames of reference where momentum, forces and energy will be considered. Motion in a resistive media and oscillations will be handled. Lagrangian mechanics will also be done during this course.

### **BSPY 2106 Solid State Physics**

This course in solid state physics covers elementary description of crystal structures; diffraction of X-rays by crystals; lattice vibrations; and thermal, dielectric and mechanical properties of solids.

### **BSPY 2207 Wave & Optics**

This course introduces general concepts of wave propagation and optics. It covers wave concepts, Fraunhofer diffraction, Huygen's – Fresnel diffraction, vector nature of light and polarization, optical, lasers and introduction to holography.

### **BSPY 2208 Geophysics**

The course focuses mainly on practical aspects of geophysics. It covers geophysical survey methods used in exploration corresponding data retrieval methods.

### **BSPY 2209 Physics Practical II**

This course covers electromagnetic wave propagation and amplification, geometric and physical optics, electricity and magnetism. It will also include AC and DC circuits.

### **BSPY 2210 Statistical Physics**

This course covers the fundamental postulates of statistical mechanics, which include quantum states, systems in contact, the different particle statistics and their applications, equipartition of energy and specific heat capacities of diatomic gases.

### **BSPY 3111 Electromagnetism**

This course builds on the Electricity and Magnetism course offered at Level 1. It covers electrostatics, stationary electric fields in conducting media, magneto-static field laws, Maxwell's equations and their applications. Plane electromagnetic waves in matter will also be covered.

### **BSPY 3112 Physics Practical III**

This course covers atomic physics, electrostatics and magnetostatics, photovoltaics. Topics in analogue and digital electronics will also be studied. Nuclear physics becomes a core and retains its code, geophysical methods will be removed completely. Space physics, elements of environmental physics and industrial physics become electives.

**BSPY 3113 Electronics**

This course introduces students to the basic elements of analog and digital electronics. The course covers current voltage characteristics of passive circuit elements and the circuit analysis of linear circuits. Nonlinear circuit elements are introduced and their applications in circuits studied. Combinational, sequential digital circuits and the use of integrated circuit (IC) devices are covered.

**BSPY 3214 Quantum Mechanics**

This course discusses the inadequacies of classical mechanics and the need for quantum mechanics. Matter waves and their statistical interpretation; wave functions, state functions and their basic properties; time dependent Schrodinger equation to operators; superposition principle; physical interpretation of wave function and probability current density; expectation values; proof of uncertainty principle; wave packets; linear operators; Eigenfunctions and eigenvalues; orthogonal systems; Expansion in eigenfunctions and completeness in relation; Hermitian operators; parity operator; commutation rule; Equations of motion; Time independent Schrodinger equation and the concept of stationary states; Problems in one dimension such as Zero potential (the free particle case), Infinite square well potential (particle in a box), Potential step (reflectance transmittance), Potential barrier, Rectangular potential well, periodic potential, Linear Harmonic Oscillator, and The Schrodinger equation for spherically symmetric potential; Angular momentum operators, hydrogen atom will be covered.

**BSPY 3215 Nuclear Physics**

This course covers the nuclear structure and the unified nuclear model, scattering of particles by the nucleus (amplitude and cross-section), particle accelerators and elementary particles.

**BSPY 3216 Space Physics**

This course gives the essential concepts of space Physics and Technology, atmospheric constituents and the Physics responsible for the formation of the different atmospheric layers. The course also an introduction to space weather in general (the sun-Earth environment and its effects on technological systems).

**BSPY 3217 Elements of Environmental Physics**

This course relates environmental issues with physics. It covers energy exploitation, climatic changes, pollution, interaction of electromagnetic fields, and nuclear radiations and radioactivity properties of matter. Environmental policy and world conventions on environmental issues will be included.

**BSPY 3218 Solar Energy**

The course covers fundamentals of solar radiation, solar energy utilization, and solar thermal systems design used for high and low temperature application, solar photovoltaic systems and sizing of solar home systems.

**BSPY 3219 Computer Programming in Physics**

This course will give students a firm background in computational physics. The course starts by looking at developing algorithms for solving physics problems. It proceeds to use selected programming languages to solve such problems, uses Mat-lab to analyze output data, and introduces system design and typesetting using Latex

**BSPY 3220 Elements of Astronomy & Astrophysics**

This course gives the basics of astronomy and astrophysics. It covers galactic structure and interstellar matter, evolution of the stars and the solar system, galaxies and cosmology.

## School of Education List of Lecturers

**Ag. Dean; Awoniyi A. Samuel**, PhD (Educational Research, Measurement & Evaluation) MEd (Educational Research, Measurement & Evaluation), PGDE, BSc (Hons) (Ilorin, Nigeria).

### Department of Arts Education

**Head: Hayuni N. Sarah**, Med, PGDE, BA (Hons) (Makerere).

#### Full-time Faculty

**Awoniyi T. Dorcas**, MEd (Mgt) (Solusi, Zimbabwe), BEd (SST) (Ado-Ekiti), (NCE (Oro, Nigeria).

**Kanyerezi Richard**, PhD (in progress), MEd, BA (Ed) (Makerere), Dip (Ed) (Kaliro NTC)

**Mupaghasi George**, MA (Ed), (Andrews, US], MEd (Spicer Memorial), BTh (Bugema).

**Nakato Victor**, MEd, BA (Ed), (Makerere).

**Olinga O. Tom**, PhD (in progress), Med, BEd. Dip (Ed) [Makerere]

**Tumwine K. Jesse**, MA (Hist), BA (Ed) (Makerere)

**Uwngabiye Valerie**, MA (Ed), BA (Ed) (Bugema).

**Womeli M. Annet**, MA (Rel), (Kyambogo), BA (Ed) (Bugema).

#### Contract/Adjuncts

**Kibaya Edward**, PhD (Hist.) MEd, BEd, ([Makerere).

**Mwangu Alex**, PhD (Geog), MEd, BEd, (Makerere).

**Rukeeba Edson**, PhD (in progress), MEd, BA (Ed), Dip (Ed) (Makerere).

#### Teaching Assistant

**Ibanda W. Harriet**, MA (Geog. In progress), BA (Ed) (Makerere).

#### Department of Language Education

**Head Kayiwa David**, MA (Lit) (CLSU), BA (Ed) (Bugema).

#### Full-time

**Akatekit Deborah**, MA (Lang. Ed), BA (Ed) (Makerere).

**Baleeta Margaret**, MA (Ed), BA (Ed), (Makerere).

**Lukwago Moses**, PhD, MA (Lang), BA (Lang) (Makerere), Dip (Lug) (Kyambogo TTC).

**Mugerwa Esther**, MEd (in progress), BA (Lang & Lit), Dip (Ed) (Makerere).

#### Contract/Adjuncts

**Kyomuhendo Victor**, BA (Hons.) [MUK] MA (Afr. Langs) [MUK]

**Rukeeba Edson**, Dip (Ed.), BA (Ed.) M. Ed. & Ph. D. (cand)

**Wambete Francis**, Dip (Kiswahili) BA (Ed.) MUK & MA African Languages [UCU]

**Njoki M. Salome**, MA (Eng) (KIU), MA (Intl Rel.) (Cavendish), BA (Ed), Dip (Ed) (Bugema)



**Ssemugooma John**, MA (Ed) (Bugema), BEd (Kyambogo).

**Sselwanga Richard**, MA (in progress), BA (Ed) (Makerere).

### **Department of Science Education**

#### **Ag. Head of Department**

**Magoola Abel**, MSc (Chem. Ed) (CLSU, Philippines), BSc (Ed) (Bugema)

#### **Full-time**

**Mghweno R. Leonard**, MSc (Chem), BSc (Ed)(Hons, (Dar es Salaam), Dip. (Ed) (Klerruu TC).

**Mugula B. Belden, PhD** (in progress), MSc (Greenwich - UK-Saxon, NL), BSc. (Conserv. Biol.) (Makerere), Dip. Ed).

**Tadalech Masebo**, MPH, MA (Ed) (Bugema), BSED (Coll. Repub., Philippines).

#### **Contract/Adjuncts**

**Oria R. Ozoo**, MA (Ed), (Makerere), BEd (Kyambogo), Dip (Ed) (Unyana).

**Amutuheire Peter**, MSc (Math) (Makerere), BSc (Ed)(Hons) (Kyambogo).

**Omony J. Bosco**, PhD (Life Science), MSc (Mol. Biol. & Biotech) (Makerere), Cert. in Aquac. Prod. & Mgt (Hebrew, Israel), BSc (Makerere).

**Lubanga Cranmer**, MSc (Chem) (Mbarara), BSc (Ed)(Hons) ( – (Mbarara).

**Nakkazi Christine**, MSc (Animal Sci.) (Makerere), BSc (Agric)(Hons) (Gulu).

**Busiku Joseph**, MSc (Public Health) (IHSU), BSc (Ed)(Hons) (Makerere).



# **SCHOOL OF HEALTH SCIENCES (SOHS)**

## SCHOOL OF HEALTH SCIENCES

**Ag. Dean: John K. Amoah**, PhD Animal Science; MSc Animal Science (Central Luzon State University, Philippines); BSc Agriculture (UEAB, Kenya); Dip. Mus. Ed., Teachers' Cert. (Cape Coast University, Ghana).

### Vision

To be a leading centre of excellence, providing quality and holistic health care education and services in Uganda and beyond.

### Mission

To be recognized as a Centre of Health Education for improvement of people's Wellbeing and providing high quality educational opportunities to students and health care professionals, and advancement of knowledge through scholarship, research and patient care and services.

### Departments

The School of Health Sciences has two departments:

- Department of Nursing and Midwifery
- Department of Nutrition, Food Science and Technology

### Programs Offered

- Bachelor of Nursing Science (BNS)
- Bachelor of Science in Food Technology and Human Nutrition ((BFNT)
- Diploma in Nursing Science (DNS)
- Diploma in Food Science and Processing Technology (DFST)
- Certificate in Nursing (CiN)

### Program Accreditation by External Agencies

All the programs in the School of Health Sciences have been accredited by different accreditation agencies. The Bachelor of Nursing Science (BNS) program was jointly approved and accredited by National Council for Higher Education (NCHE) and Uganda Nurses and Midwives Council (UNMC), while the Diploma and Certificate programs were licensed and accredited by Uganda Nurses and Midwives Council (UNMC), Uganda Nurses and Midwives Examination Board (UNMEB) and Business, Technical and vocational Education and Training (BTVET). The programs have also been approved and accredited by Adventist Accreditation Agency (AAA) based in Maryland, USA. On the other hand, Bachelor of Science in Food Technology and Human Nutrition ((BFNT) and Diploma in Food Science and Processing Technology (DFST) are fully accredited by NCHE.

## DEPARTMENT OF NURSING AND MIDWIFERY

**Head of Department:** Rosemarie F. Cacho, RN, BSN, MAN (Liceo de Cagayan, Philippines).

**Principal (Certificate and Diploma):** Agnes Katusabe, RN (Aga Khan), BME (Makerere).

### Vision

Guided by the truths of the Gospel, we envision to become a leading educational institution, advancing the science of nursing and healthcare that will exemplify the healing ministry of Jesus Christ.

### Mission

The mission of the Department of Nursing is to prepare students to be competent nursing professionals who will integrate Christian caring into their nursing practice as they serve diverse communities in Uganda and beyond.

### Objectives

- To provide unique learner-centered experience that incorporates Christian faith and values into theoretical content, evidence-based practice and diverse clinical experiences.
- To provide high quality educational opportunities to health care and nursing students in the advancement of knowledge through patient care services, scholarship, and research.
- To achieve academic excellence in nursing education through learner centered teaching, evidence based practice, creative inquiry and student engagement.
- To prepare graduates for a successful nursing career that includes life-long learning, leadership training, leadership and responsibility through professional nursing practice and service to others.
- To achieve recognition as a leader in nursing within the community through collaborative, public private partnerships and service.

### Expected Program Outcomes

The Bachelor in Nursing Science program prepares a nurse generalist with a liberal arts background who focuses upon treating human responses to actual or potential health problems. Graduates are expected to meet the following program outcomes to function in entry- level nursing practice positions. The following are the expected skills that a student will acquire in this program:

Graduates will provide safe. Patient centered care in a variety of settings.

Graduates will apply concepts of safe practice to promote optimal patient clinical outcomes.

Graduates will use sound evidence to make appropriate clinical decisions.

Graduates will communicate and collaborate with members of the interdisciplinary health care team in a professional and effective manner, through verbal, non- verbal, written and electronic means to improve patient outcomes and teamwork.

Graduates will integrate information technology into nursing practice in a variety of settings.

Graduates will function as a leader within the nursing roles provides of care. Manager of care, and member of the profession.

### Programmes Offered

- Bachelor in Nursing Science
- Diploma in Nursing Science
- Certificate in Nursing

**Note:**

- For detailed description of the curriculum for 2 -3 above, refer to the National (BTVET) Curriculum of the Ministry of Education and Sports.
- For General Education Courses (GEC), students will be required to do a total of 19 hours (see under GEC category).

**Education Field Trip**

Field trips as required by nursing courses to enhance the learning of the students. It is also a clinical requirement to be fulfilled by students pursuing the degree, diploma and certificate programmes.

**Delivery Modes**

- Lecture and Discussions
- Demonstration and Return Demonstration
- Reports (Individual and Group)
- Skills Laboratory Clinical Rotation
- Community Participation and Outreach
- Case Presentations
- Seminar/Workshops
- Research
- Clinical Enhancement
- Examination Department /Uganda Accrediting Body (MOE/UNMEB), etc.

**Requirements for Reproductive Health/Midwifery Experience**

In line with the standards of the Uganda Nurses and Midwives Council, UNMC, every student in the BNS program shall be required to show documentary evidence for the following procedures:

• Pelvic Assessment	05
• Antenatal History and Physical Examinations	50
• Vaginal Examinations	15
• Normal Deliveries	20
• Abnormal Deliveries	05
• Domiciliary Case	03
• Health Education talks	05
• Postnatal Examinations	05
• Young Child Clinics	10
• Family Planning case	05
• Community based health care (Home based care)	02

Additional Requirements for surgical nursing one must comply with and show evidence of surgical assisting in Theater Nursing:

- 3 assisting in Major surgical cases
- 3 assisting in Minor surgical cases

## BACHELOR OF NURSING SCIENCE (BNS)

### Program Description

The Bachelor of Nursing Science is an allied health and a 4 year program which consists of general education /liberal arts, selected religion subjects and professional nursing courses. Professional courses begin in the first year and threads through the development of competencies up to the 4<sup>th</sup> year level. Nursing concepts is delivered through theory based- classroom learning and practical hands- on sessions in nursing laboratory and with practice through supervised clinical placements and exposure to different health care environments. The curriculum provides an intensive practicum/ clinical enhancement that will refine clinical skills from first year level to ensure basic clinical competencies required of a beginning professional nurse practitioner.

Consistent with the philosophy of Bugema University, the Faculty in the School of Nursing subscribes to the following beliefs about:

**MAN** is a unique, free, rationale, bio-psychosocial, spiritual being, created in the image of God with individual aspirations that are influenced by the stages of development, life experiences, Society, culture, and technological advances. Man relates with individual families, groups, and communities, and continuously adapts to a changing environment as an integrated whole.

**HEALTH** is a basic human right and a responsibility of both the individual and the State. It is a dynamic state of well-being occurring in a continuum where the person functions at an optimum level. Health is interrelated with socio- economic, political and educational dimensions. It is achieved through people empowerment and participation.

**NURSING** is a dynamic discipline. It is an art and a science of a caring for individual families, groups and communities geared toward promotion and restoration of health, prevention of illness, alleviation of suffering and assisting clients to face death with dignity and peace. It is focused on assisting the client as he/ she responds to health- illness situations, utilizing the nursing process and guided by ethico-legal moral principles.

**NURSING EDUCATION**, consistent with the philosophy of the higher education and committed to quality education, is an active teaching learning, multi-disciplinary, cyclical process aimed at seeking truth. In collaboration with nursing service, it aims to produce a professional nurse who is responsible, nationalistic creative and a critical thinking generalist with AKS (Attitude, Knowledge, Skills) in communication, nursing, research and leadership. It is relevant to the need of the Uganda Society in the light of global concerns.

**SOCIETY** is the milieu within which the nurse functions. It is influenced by the socio-economic, political, educational and religious forces which he/ she adapts to and/ or changes to assist the clientele.

Within the context of the philosophy of Nursing and enriched by the Seventh - day Adventist heritage, values and beliefs the curriculum advocates the core values which are vital components in the development of a Christian professional nurse:

**Love of God:** Nurse who has personal relationship with God is motivated primarily through the sense of gratitude to God and his loving act of Salvation, and to respond with compassion and care to the needs of all people and project an unconditional love

as exemplified in ministry of Christ. (Matthew 25:31; Luke 10:31-37; Philippians 2:1-4 and 1 John 4:19).

Caring as the core of Nursing:

- Compassion
- Competence
- Confidence
- Conscience
- Commitment (Commitment to culture of excellence, discipline, integrity professionalism)

Caring is personal quality which a nurse manifests as a result of the value of altruism.

**Love of people:** Respect for the dignity of each person regardless of creed, color, gender and political affiliation.

“Nurses respect person’s individual needs, values and culture in the provision of nursing care” (ANCI).

Each individual has inherent worth because he/ she has been created by God. In recognition of such, the Christian nurse will value each person and respect their uniqueness and specific needs. (Psalm 139:13-17; John 3:16).

**Love of Country:** Patriotism, civic duty, social, responsibility and good governance.

Preservation and enrichment of the environment and cultural heritage.

Nurses value the promotion of ecological social and economic environments which supports and sustains health acknowledging God as both Creator and Savior of the world and life. Christian nurse will be motivated to create physical and rational environment conducive to health and well-being for both clients and colleagues.

**Truth:** Is a faithfulness to facts or reality, respect the accountability and responsibility inherent in their roles. God is the source of all truths, therefore, the Christian nurse will endeavor to be.

Honest and truthful in all situations. (Exodus 3:9-10, 20: 16; Philippians 4:8-9; Colossians 3:9-16).

**Hope:** Hope gives opportunity not to give up when an individual is facing an apparently despairing situation, identifies that there are several reasons it makes a difference to nursing. These include the fact that illness and all that accompanies it can be destructive to hope, lack of hope thwarts healing, and it is a powerful motivator of life. (Thompson, 1994, 12).

There is a spiritual dimension to hope, and God is the ultimate source of that, Christian nurses have an important ministry in helping clients to develop realistic hope in times of illness or despair, as well as giving them insight into the hope of life eternal as a gift from God.

**Wholeness:** Directs humanity to consider the meaning of life and existence. It therefore encourages a focus on the Creation of life and the Creator, and an awareness of being created in his image physically, mentally, emotionally, morally, and spiritually. Although sin has attempted to destroy the created image, fostering a relationship with God the Creator can help to restore the image and give it the purpose intended. To have such connectedness to one’s Creator is to be highly valued. (Jones, P.S. 1978, 1993; Carson, B.B. 1989)

**Rest and Restoration:** Is associated with feelings of peace, purpose, renewal, reassurance, comfort, rejuvenation, which have rich meaning to health care clients. Identifying rest as a spiritual discipline, it gives time to affirm our worth apart from what we do and offers time for physical, mental, emotional and spiritual regeneration. (In Matthew 11:12 Jesus says. "Come unto me all you who are weary and burdened and I will give you rest.")

The beginning professional nurse practitioner of this program may pursue the following career paths but not limited to:

- Clinical Nursing
- Community Health Nursing
- Private- duty Nursing
- Occupational Health Nursing
- School Nursing
- Military Nursing
- Health Education
- Research
- Entrepreneurship

### **Allied Programs**

This program is allied the following health related programs:

- Medicine
- Dentistry
- Optometry
- Physical Therapy/ Occupational Therapy / Speech Patholog Pharmacy Public Health
- Medical Technology
- Radiologic Therapy
- Respiratory Therapy
- Nutrition and Dietetics
- Midwifery

## **PROGRAM REQUIREMENTS, ORGANIZATION, STRUCTURE AND COMPETENCIES**

The goal of the Bachelor of Nursing Science program is to prepare a multi-skilled nurse who will competently meet the healthcare needs of the community in all settings by providing preventive, promotive, curative, as well as rehabilitative services to members of society. Similarly, the graduate is also prepared to initiate, participate in and support health research.

After successful completion of the program, the graduate shall be expected to:

- Provide promotive, preventive, curative and rehabilitative health services.
- Manage health services based in institutions in rural, peri-urban and urban areas.
- Generate information through basic and applied research approaches
- Disseminate information through teaching and other health education modalities.
- Lead communities in issues related to health and community development.

### **Curriculum Structure and Design**

In order to produce a graduate with the requisite competences, it is recommended that the curriculum model chosen for implementing the Bachelor of Nursing Science degree program should encourage students to be responsible for their learning process and prepare them for lifelong, self- directed learning. It is further recommended that the

curriculum should emphasize development of clinical competencies to ensure effective delivery of nursing care. This curriculum has been design in such a way that it reduces theoretical burden on students and integrates the basic sciences and biomedical courses with clinical courses based on various disciplines, systems, problems and community needs.

The courses included in this curriculum are based on sound teaching and learning principles and are aimed at fostering the ability of the student to participate in nursing and health research and above all, to practice the profession of nursing with a great dedication to ethics, integrity and professionalism. The curriculum is comprised of courses structured in a spiraling manner starting with level ones courses consisting of basic sciences, the knowledge of which is important in understanding courses in latter parts of the curriculum. The second level one courses, consisting of biomedical sciences addresses the structures of the human body, whilst the social sciences enable the student to understand how humans operate in the community.

The third level of courses includes the study of disease processes and applied aspects of various biomedical sciences to enable the student understand the rationale for professional nursing care. The fourth level of courses consists of clinical courses that require clinical rotations and are aimed at acquisition of clinical knowledge, attitude and competencies essential for delivery of effective nursing care. In terms of the curriculum design, the courses have been organized in a manner that they respond to the actual needs of the graduates and the target community they will serve.

Hence the courses included in the curriculum are community oriented in order to make the student familiar with the environment, health facilities as well as the processes in which they practice nursing. This will ensure that after graduation, the students will be conversant with the health needs of various communities and populations groups. In addition, the courses are designed to prepare the student to undertake research leadership in the healthcare delivery system.

### **Learning and Teaching Strategies**

In modern health professional training, it is preferred that the teaching and learning methodologies used should be innovative to promote active and life-long learning. In this curriculum, the lecturers and facilitators are encouraged to use the following approaches:

Student-Centered learning, to promote full use of individual abilities.

Problem-based learning using small group tutorials to develop critical thinking skills

Lectures to provide guidance in scope and depth to broaden students understanding.

Large group discussions between students and lecturers to facilitate exchange of ideas e)

Seminars and grand rounds to address multi-disciplinary issues as well as case studies.

Laboratory and Practical exercises in various settings to cultivate practical skills.

Clinical demonstrations to emphasize holistic approach to patient/ Client care.

Community placements for community assessment and appropriate interventions.

E- Learning opportunities through online and internet based technologies. It is recommended that during the implementation of the various courses, the different strategies are used in such a way that they complement one another to enhance student's understanding and learning. It is further recommended that clinical placements should be emphasized for the senior year students to encourage acquisition of clinical competencies.



### **Minimum Admission Requirements**

Four entry points are available for persons wishing to enter the BNS direct entry program: Holders of the Advanced Level Certificate: In order to be eligible for admission, a candidate must have sat and passed Uganda Certificate of Education examination or its equivalent and obtained passes in at least with five subjects including Biology, Chemistry, Physics, Mathematics, and English, and Uganda Advanced Certificate of Education examination or its equivalent and obtained a principal pass each in Biology and Chemistry and one other subsidiary pass.

Holders of Kenya School Certificate of Education: In order to be eligible for admission, a candidate must have sat and passed Kenya Certificate of Secondary of Education examination with a mean grade of C+ (plus), and have obtained at least a C+ (plus) in each of the cluster subjects below:

Biology, Chemistry, Physics, Mathematics, English, OR,  
Biological Sciences, Physical Sciences, Mathematics, English.

Holders of School Certificates Graded in Percentages and Average Points: In order to be eligible for admission, a candidate whose final high school marks are graded in percentages and average point systems such as in the Sudan, Democratic Republic of Congo, Rwanda and Burundi must have their grades first equated by Uganda National Examinations Board, before seeking admission to pursue the BNS Program at any University in Uganda. In order to be eligible for admission, such Candidate must have sat and passed the high school leaving examinations and obtained at least 55% or Credit 5 in the following Science subjects or their equivalents: Physics, Mathematics, Biology, Chemistry, and English.

Holders of Bachelor's Degrees: In order to be eligible for admission, such a candidate must have obtained a first degree, and a level of a level of second-class lower division or its equivalent from a recognized institution. The successful candidate shall then be required to undertake a Higher Education Certificate (Biological) program and pass at a GPA of 2.8. The successful candidate shall then undertake the program on full time basis for a period of four years, unless otherwise recommended by the National Council of Higher Education.

### **Duration of the Direct Entry Program**

The BNS direct entry program extends over a period of four academic years divided into semester or terms. Although universities are free to choose between the semester or term system, it is recommended that in the future they fully adopt the semester system for easy implementation of the Credit Transfer system. It thus recommended that based on the semester system, an academic year would consist of two semesters each lasting at least 20 weeks divided into three parts:

Teaching block for both theoretical and clinical teaching = 17 weeks

Revision period to facilitate preparation for examinations = 01 week

Examination period to conduct end of semester examinations = 02 weeks

### **Weighting of Courses**

It is proposed that the courses are weighted using credit unit system as follows:

- 01 Credit Unit (CU) = 15 hours of Theoretical teaching
- 01 Credit Unit (CU) =30 hours of practical/clinical teaching

### **Assessment of Academic Progress**

It is proposed that the progress of students shall be assessed both formatively and summatively, using continuous assessments as well as end of semester assessment:

#### **Progressive/ Continuous Assessment**

Within the semester, it is recommended that students are assessed formatively for academic progress using a combination of the following and other innovative evaluation methods:

- Written course assessment tests
- Log of experiences and procedures
- End of course unit evaluation tests
- Written course unit assignments
- Case Reports, Portfolios and Projects
- Participation, attitude, behavior and attendance of class Progressive assessment should carry thirty percent (30%) of the total mark of the course.

#### **End of Course Assessment**

Students shall be assessed summatively at the end of each course, usually at the end of each semester, or at the end of the academic year using a combination of the following approaches:

- Written Examination consisting of MCQs, SAQs, LEQs 40%
- Practical/ Clinical/ Oral Examination using OSPE, OSCE, Clinical cases 30%. End of course examinations shall carry seventy percent (70%) of the total mark of course.

#### **Pass Mark**

It is recommended that the pass mark for any course shall be fifty percent (50%), obtained from simple addition of the marks scored in progressive (continuous) assessment, written (theory) examination, and practical (demonstrations), clinical (ward) and oral (viva voce) examinations. It is also recommended that in courses that have practical/clinical components, failing to obtain a minimum of 15% out of the 30% in the practical/clinical examination shall constitute overall failure in the course regardless of the overall percentage mark scored. It is further recommended that for the clinical years, it is mandatory for the student to pass all clinical examinations in order to proceed to the next year of study. This implies that a student who fails a clinical examination shall be required to repeat and pass the course before proceeding to the next semester or academic year. Hence, carrying over clinical is prohibited.

#### **Repetition and Discontinuation on Academic grounds**

It is proposed that after failure, a student enrolled in this program is given three (3) chances to re-sit the final examinations. A student shall be discontinued from the program after failing to pass the re-sit examination at the third and final sitting.

#### **Academic and Professional Award**

The responsibility of the Academic award for graduates of BNS program shall be that of the university; while that of the professional award shall be that of the Uganda Nurses and Midwives Council (UNMC) as required by the laws of the Republic of Uganda as hereunder:

#### **Academic Award**

Upon successful completion of the program of study hereunder, the university will issue an official Academic Transcript showing the grades obtained by the candidate in the various courses attended throughout the program. In addition, such a candidate shall

receive the Bachelor of Nursing Science Degree Certificate of the awarding university as per its senate.

**Professional Award**

After successful completing the BNS program at a given university, the students shall seek temporary licensure with the Uganda Nurses and Midwives Council (UNMC) to allow them undertake, a compulsory one year of internship placement in an accredited hospital. The internship placement shall normally consist of three months each in Medical, Surgical, Maternity, and Pediatric General Wards and the related specialist areas.

Graduates who shall have successful completed their internship under the auspices of the National Internship Committee of the Ministry of Health shall then seek full licensure with UNMC and shall be awarded the professional certificate to enable them practice as Registered Nurses.

**Minimum Requirements for Facilities and Staffing**

Bugema University is committed to running the BNS program effectively, university should have the following facilities and the staging level as the minimum acceptable standards.

## BACHELOR OF NURSING SCIENCE (BNS)

### COURSE STRUCTURE AND IMPLEMENTATION PLAN

<b>Degree Summary</b>	<b>CU</b>
General Education	18
Cognates	10
Major concentration	137
Electives	04
Research	06
<b>Total Credits</b>	<b>175</b>

#### General Education Courses (18 Credit Units)

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
GE CR 1101	Christian Beliefs	3
GE CL 1101	Introduction to Writing Skills	3
GE CC 1101	Fundamentals of Computer & Office Applications	4
GE CS 1201	Issues in Science and Religion	3
GE CA 1201	Philosophy of Christian Education	3
GE CV 12--	Vocational Studies	2

#### Major Concentrations (137 Credit Units)

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
BNSC 1101	Anatomy & Physiology for Nurses I	5
BNSC 1102	Psychology	3
BNSC 1103	Communication & Counseling Skills	3
BNSC 1104	Theoretical Foundations of Nursing	3
BNSC 1205	Anatomy & Physiology for Nurses II	5
BNSC 1206	Microbiology & Parasitology	4
BNSC 1207	Fundamentals of Nursing Practice I	4
BNSC 1208	Nursing Ethics & Integrity	3
BNSC 2109	Fundamentals of Nursing Practice II	3
BNSC 2110	Pathophysiology	3
BNSC 2111	Pharmacology	4
BNSC 2112	Health Assessment	3
BNSC 2113	Community Health Nursing I	3
BNSC 2114	Care of Healthy Mother and Family	5
BNSC 2115	Care of Healthy Child and Family	4
BNSC 2116	Care of Mother and Family at Risk	5
BNSC 2217	Care of Child and Family at Risk	5
BNSC 2218	Community Health Nursing II	3
BNSC 2219	Biochemistry	4
BNSC 2220	Epidemiology	3
BNSC 3121	Care of Clients with Problems in Oxygenation	4
BNSC 3122	Care of Clients with Fluid & Electrolyte Imbalance	4
BNSC 3123	Care of Clients with Metabolism & Endocrine Problem	4
BNSC 3124	Principles in Nursing Education	3
BNSC 3125	Sociology	3
BNSC 3226	Care of Clients with problems in Perception & Coordination	5
BNSC 3227	Care of Clients with Problems in Adjustment & Maladaptive Behavior	5
BNSC 4131	Nursing Leadership, Administration & Management	5

BNSC	4133	Care of Clients with Problems in Inflammation Immunologic Reaction	4
BNSC	4134	Care of Clients with Cellular Aberration	4
BNSC	4135	Care of Clients in Biologic Crisis Emergency & Disaster	4
BNSC	4136	Competency Appraisal I	3
BNSC	4237	Issues in Professional Nursing	3
BNSC	4238	Intensive Practicum	8
BNSC	4239	Competency Appraisal II	3

**Cognate Courses (10 Credit Units)**

Course Code	Course Title	CU
BENT 2101	Entrepreneurship and Innovation	3
BRSH 2202	Biostatistics	3
BNFT 3227	Medical Nutrition Therapy for Nurses	4

**Research (6 Credit Units)**

Course Code	Course Title	CU
BNRM 3224	Nursing Research Methodology	3
BNRP 4132	Research Project	3

**Electives – One from each cluster (4 Credit Units)**

**Cluster 1**

Course Code	Course Title	CU
BNSC 3204	Parent- Child Nursing	2
BNSC 3205	Spiritual Care Nursing	2
BNSC 3206	Hospice Palliative Care	2

**Cluster 2**

Course Code	Course Title	CU
BNSC 3207	Acute/Critical Care Nursing	2
BNSC 3208	Quality Health Care and Nursing	2
BNSC 3209	Care of the Chronically ill and the Older Person	2

**Recommended Schedule For Bachelor Of Nursing Science**

**First Year Semester One Courses**

Code	Name	TH	PH	CH	CU
BNSC 1101	Anatomy & Physiology for Nurses I	60	30	75	5
BNSC 1102	Psychology	45	0	45	3
BNSC 1103	Communication & Counseling Skills	45	0	45	3
BNSC 1104	Theoretical Foundations of Nursing	45	0	45	3
GECR 1101	Christian Beliefs	45	0	45	3
GECL 1101	Introduction to Writing Skills	30	15	45	3
GECC 1101	Fundamentals of Computer & Office Applications	45	30	60	4
<b>Total</b>		<b>315</b>	<b>75</b>	<b>360</b>	<b>24</b>

**First Year Semester Two Courses**

Code	Name	TH	PH	CH	CU
BNSC 1205	Anatomy & Physiology for Nurses II	60	30	90	5
BNSC 1206	Microbiology & Parasitology	45	30	75	4
BNSC 1207	Fundamentals of Nursing Practice I	45	30	75	4

BNSC	1208	Nursing Ethics & Integrity	45	0	45	3
GECS	1201	Issues in Science and Religion	45	0	45	3
GECA	1201	Philosophy of Christian Education	45	0	45	3
GECV	12--	Vocational Studies	15	30	45	2
<b>Total</b>			<b>300</b>	<b>120</b>	<b>375</b>	<b>24</b>

**Second Year Semester One Courses**

<b>Code</b>	<b>Name</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BNSC	2109	Fundamentals of Nursing Practice II	30	30	60	3
BNSC	2110	Pathophysiology	30	30	60	3
BNSC	2111	Pharmacology	60	15	75	4
BNSC	2112	Health Assessment	45	30	45	3
BNSC	2113	Community Health Nursing I	30	30	45	3
BNSC	2114	Care of Healthy Mother and Family	60	150	135	5
BNSC	2115	Care of Healthy Child and Family	60	15	75	4
<b>Total</b>		<b>315</b>	<b>165</b>	<b>465</b>	<b>25</b>	

**Second Year Semester Two Courses**

<b>Code</b>	<b>Name</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BNFT	3227	Medical Nutrition Therapy for Nurses	45	30	75	4
BNSC	2216	Care of Mother and Family at Risk	60	60	120	5
BNSC	2217	Care of Child and Family at Risk	60	60	120	5
BNSC	2218	Community Health Nursing II	30	30	45	3
BNSC	2220	Epidemiology	30	30	45	3
BNSC	2219	Biochemistry	45	30	60	4
<b>Total</b>		<b>240</b>	<b>300</b>	<b>390</b>	<b>24</b>	

**Third Year Semester One Courses**

<b>Code</b>	<b>Name</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BNSC	3121	Care of Clients with Problems in Oxygenation	45	30	75	4
BNSC	3122	Care of Clients with Fluids & Electrolyte Imbalance	60	30	90	4
BNSC	3123	Care of Clients with Metabolism & Endocrine Problem	60	30	90	4
BNSC	3124	Principles in Nursing Education	30	30	60	3
BENT	2101	Entrepreneurship and Innovation	30	30	60	3
BNSC	3125	Sociology	45	0	45	3
<b>Total</b>		<b>270</b>	<b>150</b>	<b>420</b>	<b>21</b>	

**Third Year Semester Two Courses**

<b>Code</b>	<b>Name</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BNSC	3226	Care of Clients with problems in Perception & Coordination	60	60	120	5
BNSC	3227	Care of Clients with Problems in Adjustment & Maladaptive Behavior	60	60	120	5
BRSH	2202	Biostatistics	45	0	45	3
BNRM	3224	Nursing Research Methodology	30	30	45	3
BNSC	32...	Elective 1	30	0	30	2
BNSC	32...	Elective 2	30	0	30	2
<b>Total</b>		<b>285</b>	<b>250</b>	<b>390</b>	<b>20</b>	

**Fourth Year Semester One Courses**

<b>Code</b>	<b>Name</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BNSC 4131	Nursing Leadership, Admin. & Mgt.	45	60	75	5
BNRP 4132	Research Project	30	45	45	3
BNSC 4133	Care of Clients with Problems in Inflammation Immunologic Reaction	45	30	75	4
BNSC 4134	Care for Clients with Cellular Aberration	45	15	60	4
BNSC 4135	Care of Clients in Biologic Crisis Emergency and Disaster	45	30	75	4
BNSC 4136	Competency Appraisal I	45	30	75	3
<b>Total</b>		<b>225</b>	<b>300</b>	<b>375</b>	<b>23</b>

**Fourth Year Semester Two Courses**

<b>Code</b>	<b>Name</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BNSC 4237	Issues in Professional Nursing	45	0	45	3
BNSC 4238	Intensive Practicum	0	240	240	8
BNSC 4239	Competency Appraisal II	45	0	45	3
<b>Total</b>		<b>90</b>	<b>240</b>	<b>330</b>	<b>14</b>

**DIPLOMA IN NURSING***(Direct Entry - 3 Year Program)***Diploma Summary**

General Education	12
Cognates	19
Major concentration	92
Practical	10
Research	06
<b>Total Credits</b>	<b>139</b>

**General Education (10 Credit Units)**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
GECC 1101	Fundamentals of Computer & Office Applications	4
GECR 1101	Christian Beliefs	3
GECL 1101	Introduction to Writing Skills	3
GEVC 12--	(Vocational course)	2

**Major Concentration Courses (92 Credit Units)**

<b>Course Code</b>	<b>Course Title</b>	<b>CU</b>
DNUR 1102	Foundations of Nursing I	4
DNUR 1103	First Aid and Emergencies	2
DNUR 1105	Personal and Communal Health	3
DNUR 1211	Foundations of Nursing II	3
DNUR 1212	Pharmacology I	3
DNUR 1213	Surgical Nursing I	2
DNUR 1214	Medical Nursing I	4
DNUR 1215	Pediatric Nursing I	3
DNUR 2117	Pharmacology II	3
DNUR 2118	Medical Nursing II	4
DNUR 2119	Surgical Nursing II	3
DNUR 2120	Gynecological Nursing I	2
DNUR 2121	Tropical Medicine	2
DNUR 2123	Reproductive Health I	1
DNUR 2124	Mental Health Nursing I	3
DNUR 2226	Pharmacology III	3
DNUR 2227	Medical Nursing III	4
DNUR 2228	Surgical Nursing III	4
DNUR 2229	Pediatric Nursing II	3
DNUR 2230	Mental Health Nursing II	3
DNUR 2232	Foundations of Nursing III	3
DNUR 3122	Community Health Nursing	2
DNUR 3134	Leadership and Management	4
DNUR 3135	Teaching Methodology	3
DNUR 3136	Palliative Care	3
DNUR 3137	Disaster Management	2
DNUR 3138	Occupational Health and Safety	2
DNUR 3239	Health Service Management	2
DNUR 3240	Pediatric Nursing III	4
DNUR 3241	Gynecological Nursing II	4
DNUR 3243	Reproductive Health II	3



**Research (6 Credit Units)**

DNRE	3101	Applied Research I	3
DNRE	3202	Applied Research II	3

**Cognates (19 Credit Units)**

DNUR	1101	Anatomy and Physiology I	4
DNUR	1210	Anatomy and Physiology II	4
DNUR	1104	Microbiology	2
DNUR	1106	Sociology	2
DNUR	1107	Psychology	2
DNUR	1108	Guidance and Counselling	2
DENT	2101	Entrepreneurship Concepts	3

**Practical (12 Credit Units)**

DNUR	1109	Practical I	2
DNUR	1216	Practical II	2
DNUR	2125	Practical III	2
DNUR	2231	Practical IV	2
DNUR	3139	Practical V	2
DNUR	3245	Practical VI	2

**Recommended Schedule For Diploma in Nursing****First Year Semester 1**

Code	Title	LH	TH	PH	CH	CU
DNUR 1101	Anatomy and Physiology I	45	30	0	60	4
DNUR 1102	Foundations of Nursing I	15	30	30	45	3
DNUR 1103	First Aid and Emergency	15	30	0	30	2
DNUR 1104	Microbiology	15	30	0	30	2
DNUR 1105	Personal and Communal Health	15	30	30	45	3
DNUR 1106	Sociology	30	0	0	30	2
DNUR 1107	Psychology	30	0	0	30	2
DNUR 1108	Guidance and Counselling	30	0	0	30	2
DNUR 1109	Practical I	0	30	30	30	2
GECC 1101	Fundamentals of Computer & Office Applications	45	30	0	60	4

**Total Credits****26****First Year Semester 2**

Code	Name	LH	TH	PH	CH	CU
DNUR 1210	Anatomy and Physiology II	45	30	0	60	4
DNUR 1211	Foundations of Nursing II	15	30	30	45	3
DNUR 1212	Pharmacology I	30	15	15	45	3
DNUR 1213	Surgical Nursing I	30	0	0	30	2
DNUR 1214	Medical Nursing I	30	30	30	60	4
DNUR 1215	Pediatric Nursing I	30	15	15	45	3
DNUR 1216	Practical II	0	30	30	30	2
GECC 1101	Christian Beliefs	45	0	0	45	3

**Total Credits:****24****Second Year Semester 1**

Code	Title	LH	TH	PH	CH	CU
DNUR 2117	Pharmacology II	30	15	15	45	3
DNUR 2118	Medical Nursing II	30	30	30	60	4

DNUR	2119	Surgical Nursing II	30	30	30	45	3
DNUR	2120	Gynecological Nursing I	15	15	15	30	2
DNUR	2121	Tropical Medicine	15	15	15	30	2
DNUR	2123	Reproductive Health I	15	0	0	0	1
DNUR	2124	Mental Health Nursing I	30	15	15	45	3
DNUR	2125	Practical III	0	30	30	30	2
GECL	1101	Introduction to Writing Skills	30	30	0	45	3
<b>Total Credits:</b>							<b>23</b>

**Second Year Semester 2**

Code	Name	LH	TH	PH	CH	CU	
DNUR	2226	Pharmacology III	30	15	15	45	3
DNUR	2227	Medical Nursing III	30	30	30	60	4
DNUR	2228	Surgical Nursing III	30	30	30	60	4
DNUR	2229	Pediatric Nursing II	30	15	15	45	3
DNUR	2230	Mental Health Nursing II	30	15	15	45	3
DNUR	2231	Practical IV	0	30	30	30	2
DNUR	2232	Foundations of Nursing III	15	30	30	45	3
GEVC	12--	Vocational Course	15	30	0	30	2
<b>Total Credits:</b>							<b>24</b>

**Third Year Semester 1**

Code	Name	LH	TH	PH	CH	CU	
DNRE	3101	Applied Research I	30	30	0	45	3
DNUR	3134	Leadership and Management	45	0	30	60	4
DNUR	3135	Teaching Methodology	30	0	30	45	3
DNUR	3136	Palliative Care	30	0	30	45	3
DNUR	3137	Disaster Management	15	15	15	30	2
DNUR	3122	Community Health Nursing	0	0	60	30	2
DNUR	3138	Occupational Health and Safety	15	15	15	30	2
DNUR	3139	Practical V	0	30	30	30	2
<b>Total Credits:</b>							<b>21</b>

**Third Year Semester 2**

Code	Name	LH	TH	PH	CH	CU	
DNUR	3240	Pediatric Nursing III	30	0	60	60	4
DNUR	3241	Gynecological Nursing II	30	30	30	60	4
DNUR	3243	Reproductive Health II	30	15	15	45	3
DNUR	3239	Health Service Management	30	0	0	30	2
DNRE	3202	Applied Research II	15	0	60	45	3
DENT	2101	Entrepreneurship Concepts	30	0	30	45	3
DNUR	3245	Practical VI	0	30	30	30	2
<b>Total Credits:</b>							<b>21</b>

## DIPLOMA IN NURSING EXTENSION (1<sup>1</sup>/<sub>2</sub> Year Program)

*NB: Diploma in Nursing Extension join the Diploma in Nursing in Year 2 Semester 2.*

### Recommended Schedule For Diploma in Nursing Extension

#### First Year Semester 1

Code	Name	LH	TH	PH	CH	CU
DNUR 2226	Pharmacology III	30	15	15	45	3
DNUR 2227	Medical Nursing III	30	30	30	60	4
DNUR 2228	Surgical Nursing III	30	30	30	60	4
DNUR 2229	Pediatric Nursing II	30	15	15	45	3
DNUR 2230	Mental Health Nursing II	30	15	15	45	3
DNUR 2231	Practical IV	0	30	30	30	2
DNUR 2232	Foundations of Nursing III	15	30	30	45	3
GEVC 12--	Vocational Course	15	30	0	30	2
<b>Total Credits:</b>						<b>24</b>

#### First Year Semester 2

Code	Name	LH	TH	PH	CH	CU
DNRE 3101	Applied Research I	30	30	0	45	3
DNUR 3134	Leadership and Management	45	0	30	60	4
DNUR 3135	Teaching Methodology	30	0	30	45	3
DNUR 3136	Palliative Care	30	0	30	45	3
DNUR 3137	Disaster Management	15	15	15	30	2
DNUR 3122	Community Health Nursing	0	0	60	30	2
DNUR 3138	Occupational Health and Safety	15	15	15	30	2
DNUR 3139	Practical V	0	30	30	30	2
<b>Total Credits:</b>						<b>21</b>

#### Second Year Semester 1

Code	Name	LH	TH	PH	CH	CU
DNUR 3240	Pediatric Nursing III	30	0	60	60	4
DNUR 3241	Gynecological Nursing II	30	30	30	60	4
DNUR 3243	Reproductive Health II	30	15	15	45	3
DNUR 3239	Health Service Management	30	0	0	30	2
DNRE 3202	Applied Research II	15	0	60	45	3
DENT 2101	Entrepreneurship Concepts	30	0	30	45	3
DNUR 3245	Practical VI	0	30	30	30	2
<b>Total Credits:</b>						<b>21</b>

## CERTIFICATE IN NURSING (2½ Year Program)

### Certificate Summary

General Education	12
Cognates	16
Core Courses	78
Practical	10
<b>Total Credits</b>	<b>116</b>

### General Education (10 Credit Units)

Course Code	Course Title	CU
GECC 1101	Fundamentals of Computer and Office Applications	4
GECR 1101	Christian Beliefs	3
GECL 1101	Introduction to Writing Skills	3
GEVC 12--	(Vocational course)	2

### Vocation Courses (3 Credit Units)

GEVC	1201	Motor Vehicle Driving, OR	2
GEVC	1203	Catering	2

### Cognates (16 Credit Units)

CNUR	1101	Anatomy and Physiology I	4
CNUR	1207	Anatomy and Physiology II	4
CNUR	1104	Microbiology	2
CNUR	1209	Sociology	2
CNUR	1210	Psychology	2
CNUR	3128	Guidance and Counselling	2

### Core Courses (76 Credit Units)

CNUR	1102	Foundations of Nursing I	5
CNUR	1103	First Aid and Emergencies	3
CNUR	1105	Personal and Communal Health	3
CNUR	1208	Foundations in Nursing II	5
CNUR	1211	Primary Health Care	4
CNUR	2113	Pharmacology I	3
CNUR	2114	Medical Nursing I	5
CNUR	2115	Surgical Nursing I	5
CNUR	2116	Pediatric Nursing I	3
CNUR	2117	Gynecological Nursing	2
CNUR	2220	Pharmacology II	3
CNUR	2221	Medical Nursing II	5
CNUR	2222	Surgical Nursing II	5
CNUR	2223	Pediatric Nursing II	3
CNUR	2224	Mental Health Nursing	3
CNUR	2226	Occupational Health	2
CNUR	3127	Tropical Medicine	4
CNUR	3129	Surgical Nursing III	4
CNUR	3130	Reproductive Health	4
CNUR	3131	Health Service Management	2

**Practical (10 Credit Units)**

CNUR	1106	Practical I						2
CNUR	1212	Practical II						2
CNUR	2118	Practical III						2
CNUR	2225	Practical IV						2
CNUR	3132	Practical V						2

**Recommended Schedule for The Two And Half Year Certificate In Nursing****First Year Semester 1**

Code	Name	LH	TH	PH	CH	CU
CNUR 1101	Anatomy and Physiology I	45	30	0	60	4
CNUR 1102	Foundations of Nursing I	30	60	30	75	5
CNUR 1103	First Aid and Emergencies	15	30	30	45	3
CNUR 1104	Microbiology	15	30	0	30	2
CNUR 1105	Personal and Communal Health	15	30	30	45	3
GECC 1101	Fundamentals of Computer & Office Applications	45	30	0	60	4
CNUR 1106	Practical I	0	30	30	30	2
<b>Total Credits:</b>						<b>23</b>

**First Year Semester 2**

Code	Name	LH	TH	PH	CH	CU
CNUR 1207	Anatomy and Physiology II	45	30	0	60	4
CNUR 1208	Foundations of Nursing II	30	30	60	75	5
CNUR 1209	Sociology	30	0	0	30	2
CNUR 1210	Psychology	30	0	0	30	2
CNUR 1211	Primary Health Care	30	30	30	60	4
CNUR 1212	Practical II	0	30	30	30	2
GECC 1101	Christian Beliefs	45	0	0	45	3
<b>Total Credits:</b>						<b>22</b>

**Second Year Semester 1**

Code	Name	LH	TH	PH	CH	CU
CNUR 2113	Pharmacology I	30	15	15	45	3
CNUR 2114	Medical Nursing I	45	30	30	75	5
CNUR 2115	Surgical Nursing I	45	39	30	75	5
CNUR 2116	Pediatric Nursing I	30	15	15	45	3
CNUR 2117	Gynecological Nursing	15	15	15	30	2
CNUR 2118	Practical III	0	30	30	30	2
CNUR 2119	Palliative Care Nursing	15	15	15	30	2
GECL 1101	Introduction to Writing Skills	30	30	0	45	3
<b>Total Credits:</b>						<b>25</b>

**Second Year Semester 2**

Code	Name	LH	TH	PH	CH	CU
CNUR 2220	Pharmacology II	30	15	15	45	3
CNUR 2221	Medical Nursing II	45	30	30	75	5
CNUR 2222	Surgical Nursing II	45	39	30	75	5
CNUR 2223	Pediatric Nursing II	30	15	15	45	3
CNUR 2224	Mental Health Nursing	30	15	15	45	3
CNUR 2225	Practical IV	0	30	30	30	2
CNUR 2226	Occupational Health	15	15	15	30	2
<b>Total Credits:</b>						<b>23</b>

**Third Year Semester I**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
CNUR 3127	Tropical Medicine	45	15	15	60	4
CNUR 3128	Guidance and Counselling	15	15	15	30	2
CNUR 3129	Surgical Nursing III	45	15	15	60	4
CNUR 3130	Reproductive Health	30	30	30	60	4
CNUR 3131	Health Service Management	30	0	0	30	2
CNUR 3132	Practical V	0	30	30	30	2
DENT 2101	Entrepreneurship Concept	30	0	45	45	3
GEVC 12--	Vocation course	15	30	0	30	2
<b>Total Credits:</b>						<b>23</b>

## BACHELOR OF SCIENCE IN NURSING COURSE DESCRIPTIONS

### **BNSC 1101 Anatomy & Physiology for Nurses I (5 CU)**

This course deals with the human body in terms of its adaptations, structural framework, with emphasis in physiology regulations, adaptive mechanisms and integrates lecture with laboratory experiences which provides exercises and techniques necessary in clinical situations. This course covers structures of the various body systems of the skin and its appendages, respiratory system, digestive system, genital system, urinary, endocrine system, musculo-skeletal system, circulatory system and nervous system. It also covers developmental anomalies as well as common conditions that affect body systems. The course introduces the students to physiological processes and concepts as well as normal functioning of various body tissues including nervous, muscular bone and connective tissue, blood and body fluids as well as epithelial tissues. In addition, it addresses common abnormalities that may disrupt normal cell and tissue functioning.

### **BNSC 1102 Psychology (3 CU)**

This course examines the basic principles of psychology and act as an introductory point preparing students for a further and more detailed understanding of psychological issues and issues of behavioral science relevant to the field of Nursing. This course covers the principles and theories of human development as well as psychological and psychiatric disorders.

### **BNSC 1103 Communication & Counseling Skills (3 CU)**

This course introduces students to communication, guidance and counseling. It prepares them to communicate effectively to individuals, small groups and large audiences as well as counsel them, In addition, it prepares them to understand examination questions, study, write, speak, listen and interview skillfully.

### **BNSC 1104 Theoretical Foundations of Nursing (3 CU)**

This course introduces students to selected concepts and theories pertinent to the practice of professional nursing are developed. Historical, legal, cultural, economic, and social factors that influence nursing and health care delivery are analyzed. Various philosophical perspectives upon professional nursing practice are considered. Nursing theories are addressed as grand and meta-paradigm concepts as framework for practice.

### **BNSC 1205 Anatomy & Physiology for Nurses II (5 CU)**

Pre-requisite: Anatomy and Physiology for Nurses I.

This course is built upon Anatomy and Physiology 1 to equip students to understand normal development and functioning of human body systems. It covers the structures and functions of the following systems: cardiovascular system, respiratory system, digestive system, genital system, urinary system; endocrine system; musculo- skeletal system, circulatory system, nervous system, reproductive and integumentary system. It also covers development anomalies, disorders and diseases associated with various body systems.

### **BNSC 1206 Microbiology & Parasitology (5 CU)**

This course is designed to assist students in the study of important microorganism and parasites. It explains the physiology and pathogenic properties of bacteria, fungi and virus as an introduction to disease causation, their biology, the infections they cause, host response to these infections and their mode of transmission, prevention, treatment and nursing responsibilities. The laboratory experience provides specimen collection, handling and processing of specimens for isolation and identification of microorganisms

and parasites involved in the infectious processes. It gives students insight about physical and chemical agents affecting micro-organisms, also addresses methods of controlling microbial growth and transportation in addition to antimicrobial chemotherapy and immunotherapy.

#### **BNSC 1207 Fundamentals of Nursing Practice I (4 CU)**

This course introduces students to concepts that will guide their practice as nurses and gives them insight into perspective of health, illness and death. It covers history and evolution of nursing, emphasizing nursing as a profession, science and art discipline and practice of nursing; therapeutic interactions, holistic care and nursing process as basis of patient care.

#### **BNSC 1208 Nursing Ethics and Integrity (3 CU)**

This course introduces students to key ethical and legal concepts and issues that will guide their practice as nurses. It specifically addresses issues related to ethical decision making. Biomedical concerns, and legal issues in nursing, professional accountability and emerging issues in delivery of nursing care. It also equips them with attitudes and values crucial in nursing and in their lifelong career as nurses and midwives.

#### **BNSC 2109 Fundamentals of Nursing II (3 CU)**

BNSC 1203 Fundamentals of Nursing 1

This course provides the students with the concept of man as a holistic being comprised of bio-psychosocial and spiritual dimensions. It discusses the developmental theories of man and emphasizes the specific health promotion guidelines on health patterns. It integrates promotion of health, prevention of illness and health maintenance interventions including the basic nursing skills.

#### **BNSC 2110 Pathophysiology (3 CU)**

Pre-requisite Anatomy and Physiology 1 & 2.

This is an integration of human anatomy, physiology and biochemistry and addresses principles of general pathology aimed at enabling students to understand the mechanism of disease process. It covers the etiology, pathogenesis, pathological changes and complication of the disease process affecting various body systems. It will also presents the role of the nurse in carrying our various assessment procedures for the management of disease conditions.

#### **BNSC 2111 Pharmacology (4 CU)**

Pre-Requisite Mathematics, Biochemistry, Anatomy and Physiology 1 & 2.

This course focuses on various pharmacologic formulations affecting the body's system in normal and diseased states. It prepares students with skills for proper administration of drugs acting on special organs of the eye, ear and nose. It also covers the use of anti-neoplastic agents, minerals and vitamins and effects of these drugs on cells, tissues, organs of the body systems.

#### **BNSC 2112 Health Assessment (3 CU)**

Pre-requisite: BNSC 1101, BNSC 1201 Anatomy & Physiology for Nurses 1 & 2.

The course deals with concepts, principles and techniques of history taking using various tools, physical examinations (head to toe) , psychosocial assessment and interpretation of laboratory findings to arrive at a nursing diagnosis on the client across the lifespan in varied settings. I in performing physical examination as well as strategies of healthy living. It will help the student develop skills in history taking and performing physical examination as well as strategies for healthy living. Functional health patterns are explored from the caring perspective. The course emphasizes demonstration and return demonstration sessions.



### **BNSC 2113 Community Health Nursing I (3 CU)**

This course is designed to equip students with knowledge, skills and attitudes necessary for provision of health services in communities. It introduces the students to principles and practice of community health, personal health and environmental health as well as primary health care. It also addresses how the elements of primary health care are implemented as well as the achievements, challenges and innovations for improved service delivery to target communities.

### **BNSC 2114 Care of Healthy Mother and Family - ( 5 Units)**

Pre- requisite : Anatomy & Physiology 1&2, Foundations of Nursing Practice

This course deals with principles and techniques of caring for the normal mothers, newborn, infants, and families including the principles and concepts on family health nursing process. The topics include reproductive and sexual health, care of the mother and fetus during prenatal period, safe delivery of the baby, immediate care of the newborn, safe motherhood and principles and practices of family planning. This prepares the students to manage pregnancy, labor and puerperium as well as actions taken for mother and child early detection and referral as the case maybe. This prepares the students to manage pregnancy, labor and puerperium as well as actions taken for mother and child early detection and referral as the case maybe.

### **BNSC 2115 Care of Healthy Child and Family – (4 Units)**

Pre- requisite: Growth and development, Family Nursing Practice, Health Assessment

This course deals with theories and development applied to newborn, toddlers, pre-school, school children, early adolescents and adolescents. It will emphasize the principles and techniques of caring for a well or normal children, the impact of family health care system for each developmental period.

### **BNSC 2216 Care of Mother and Family at Risk (5 units)**

Pre-requisite: BNSC 2114 and 2115

This course deals with the concept of disturbance and pre-existing health problems of pregnant women and the pathologic changes that go with intra and postpartum periods, health conditions and risk of mothers and family. This course further deals with the care of women who have medical and surgical genito-urinary disorders including the rectum and anus problems.

### **BNSC 2217 Care of Child and Family at Risk ( 5 units)**

Pre-requisite: BNSC 2116

This prepares students with knowledge, skills and attitude necessary for the care of at risk newborn, infant, children and adolescents with conditions common at these ages including those affecting the different body systems.

### **BNSC 2218 Community Health Nursing II (3 CU)**

Pre- requisite: BNSC 2105: Community Health Nursing 1.

This course prepares students with the necessary knowledge, skills and attitude to promote health restoration to the individuals, family, special groups in the community. It discusses management of non-communicable and communicable diseases, community nutrition and assessment of nutritional status of population groups in the community. This course emphasizes the role of the nurse as a community organizer, utilizing community health nursing process and community development concept.

### **BNSC 2219 Biochemistry (4 CU)**

This course involves the study of the chemical processes which occur in a living Organism. It involves the approaches of Chemistry and Biology to describe how cells and organisms work. It covers specifically biochemical mechanisms in human cells, a key to understanding the molecular basis of health and illness.

### **BNSC 2220 Epidemiology (3 CU)**

Pre –requisite: Community Health Nursing and Biostatistics.

This course equips students with knowledge and determinants of disease occurrence. It covers concepts of epidemiology in health practice, factors which influence disease transmission among individuals, and communities; principles governing management of disease and epidemic outbreaks in communities, statistical methods in epidemiology and application of epidemiology in medical practice and research.

### **BNSC 3121 Care of Clients with Problems in Oxygenation ( 4 CU)**

Pre-requisite: Health Assessment, Pathophysiology, Pharmacology

This course deals with the principles and techniques of nursing care management of sick clients across the lifespan in any setting with emphasis on adult and the older person or population group with problems in oxygenation.

### **BNSC 3122 Care of Clients with Fluid & Electrolyte Imbalance( 4 CU)**

Pre-requisite: Health Assessment, Pathophysiology, Pharmacology

This course deals with the principles and techniques of nursing care management of sick clients across the lifespan in any setting with emphasis on adult and the older person or population group with problems in fluid and electrolyte.

### **BNSC 3123 Care of Clients with Metabolism and Endocrine Problem ( 4 units)**

Pre-requisite: Health Assessment, Pathophysiology, Pharmacology

This course deals with the principles and techniques of nursing care management of sick clients across the lifespan in any setting with emphasis on adult and the older person or population group with problems in metabolism and endocrine functions.

### **BNSC 3124 Principles in Nursing Education (3 CU)**

The course provides the students with fundamental knowledge and skills to participate in education of others. The course deals with the concept of education as well as selected methods and instructional media used in nursing education. It also prepares students to apply principles of teaching and learning, plan and implement instruction and curriculum for health workers and engage in measurement and evaluation of learners.

### **BNSC 3125 Sociology (3 CU)**

This course covers the development of sociology as a science. It discusses the concepts and ideas associated with human behavior such as culture, social structure socialization, social groups and social institutions. This course deals with human interaction and the impact of this interaction to the health of individuals and groups. It enables student to explore to respond to illness and the relationships between the individuals and the health personnel and how this relationship could influence the healing process. The course also draws the student nurse' attention to the various alternative healing methods available; thus helping the student nurse to understand the impact of social systems and cultural norms, beliefs on the management of the patient in the contemporary health systems.

### **BNSC 3226 Care of Clients with Problems in Perception and Coordination (5CU)**

Pre-requisite: Health Assessment, Pharmacology, Pathophysiology

This course deals with the concepts, principles an intervention in the care of sick individuals, population group across the lifespan with emphasis on the adult and older person experiencing alterations in perception and coordination in varied settings.

### **BNSC 3227 Care of Clients with Problems in Adjustment & Maladaptive Behavior(5CU)**

This course deals with the concepts, principles and theories of human behavior and the care of individuals, population group across the lifespan experiencing acute and chronic psychosocial adjustment and those with psychiatric illnesses / maladaptive behavior in varied settings. The course will comprise of 2 credit units of theory and 2 credit units of practicum.

### **BNRM 3224 Nursing Research Methodology( 3.0 CU)**

This is an introductory course intended to equip the nursing students with concepts, principles in research starting from an overview of the major phases of the research process. The course will include discussion from formulation to dissemination of research findings, focus on the formulation of a research problem to the selection of the research design, planning and choosing the appropriate research tool for data gathering. This course will require the student/group to present a research proposal in a colloquium to apply knowledge and demonstrate skills and attitude in the conceptual, design and planning phases of the research process.

### **BNSC 4131 Nursing Leadership, Administration and Management ( 5.0 CU)**

This course deals with the application of concepts, principles and theories of management as a process, including the method of developing nursing leaders and managers in the hospital and community settings. It includes ethico-moral/ legal aspects of health care and nursing practice, the roles and responsibilities for personal and professional growth. The subject will focus on the application of leadership and management in variety of workplaces such as hospitals and community. In addition, health management information system, financial and human resource managements, health planning and policy making will be discussed in the context of nursing practice.

### **BNRP 4132 Research Proect ( 3.0 CU)**

Pre-requisite: Nursing Research Methodology

This course enables the student to apply the knowledge and skills gained during the course of research methodology to produce their own research project following successful implementation of the research proposal. It involves data collection, collation, data analysis, preparing the paper for final defense and the process disseminating the findings including development of manuscript.

### **BNSC 4133 Care of Client with Problems in Inflammation Immunologic Reaction (4 CU)**

Pre-requisite: Health Assessment, Pharmacology, Pathophysiology, BNSc 3124

This course deals with the concepts, principles an intervention in the care of sick individuals, population group across the lifespan with emphasis on the adult and older person experiencing problems in inflammatory and immunologic response in varied settings.

### **BNSC 4134 Care of Clients with Cellular Aberration (4 CU)**

Pre-requisite: BNSC 3201

This course deals with the principles and techniques of nursing care management of sick clients across the lifespan with emphasis on the adult and older person with alteration/problems in cellular aberration and acute biologic crises, including emergency and disaster nursing. The students will apply the nursing process in the care of individuals, families in the community and hospital setting. The course will comprise of 8 credit hours of theory and 8 credit hours practicum.

**BNSC 4135 Care of Clients in Biologic Crisis Emergency and Disaster (4 CU)**

This course deals with the principles and techniques of nursing care management of sick clients across acute biologic crises, including emergency and disaster nursing. The students will apply the nursing process in the care of individuals, families in the community and hospital setting. The course will comprise of 8 credit hours of theory and 8 credit hours practicum.

**BNSC 4237 Issues in Professional Nursing (3 CU)**

This course prepares the student to transcend from being a student nurse to being a professional nurse. It also focuses on emerging issues in nursing education and nursing practice, gender issues, traditional medicine and complementary therapy, image of nursing, social and political issues affecting nursing profession.

**BNSC 4136 Competency Appraisal I (3 CU)**

Pre- requisite: Fundamentals, Care of Mother and Child, Community Health Nursing. This course deals with the application of concepts, principles and processes basic to the practice of nursing with emphasis on health promotion, health maintenance, preventive risk reduction, curative and rehabilitative aspects of care for the mother, child and family, population group and community with problems of oxygenation, fluid and electrolyte balance, metabolism and endocrine systems. It includes the utilization of the nursing process, management and research in the practice of nursing.

**BNSC 4131 Nursing Leadership, Administration and Management (5 CU)**

This course deals with the application of concepts, principles and theories of management as a process, including the method of developing nursing leaders and managers in the hospital and community settings. It includes ethico-moral/ legal aspects of health care and nursing practice, the roles and responsibilities for personal and professional growth. The subject will focus on the application of leadership and management in variety of workplaces such as hospitals and community. In addition, health management information system, financial and human resource managements, health planning and policy making will be discussed in the context of nursing practice. This course will comprise of 3.0 credit units of theory and 2.0 credit units of practicum.

**BNSC 4238 Intensive Practicum (8 CU)**

This course is designed to prepare the student for role transition to practice professional nursing. It is the actual application of theories, concepts, and principles of clinical nursing practice to groups of clients in varied settings and to demonstrate entry level competences in basic nursing services to the hospital, health centers and clinics. Emphasis is placed on integrating the multiple roles of professional nursing to enhance critical thinking and communication skills. The students will be blocked in the following area:

**Staff Nurse Experience in the ward, Headnursing, Team Nursing  
Community Based Midwifery Care: Domiciliary Care Community Based Nursing  
Care**

**BNSC 4239 Competency Appraisal II (3 CU)**

Pre-requisite: BSNC 3201 & BSNC 4102.

This course deals with the application of concepts, principles and processes basic to the practice of nursing with emphasis on Health promotion , health maintenance, preventive, risk reduction, curative and rehabilitative aspects of care of sick individual with alterations in immunologic and inflammatory reaction, cellular aberrations, perception and coordination, adjustment problems, maladaptive patterns of behavior, acute biologic crises, disaster and emergency. It includes the utilization of the nursing process, research management and leadership skills in the practice of nursing.

## ELECTIVES

### **Electives Cluster 1 (2 CU)**

This cluster deals with nursing interventions/strategies for the prevention and/or management of behavioral problems of children arising from parent- child relationship. A student chooses one concept from any of the three concepts from this cluster.

Prerequisite: BNSC 2106 and BNSC 2202

### **BNSC 3204 Parent- Child Nursing (2 CU)**

This course introduces students to nursing interventions/strategies for the prevention and/or management of behavioral problems of children arising from parent-child relationships.

### **BNSC 3205 Spiritual Care Nursing (2 CU)**

The course deals with the history, philosophy, theories, principles, process, modes and interventions of spiritual care. Emphasis is made on the process of spiritual formation and the role of nurses in providing spiritual care.

### **BNSC 3206 Hospice Palliative Care (2 CU)**

This course introduces to students the concepts, principles and theories of hospice palliative care.

### **Elective Cluster 2 (2 CU)**

This cluster is designed to introduce the student to care for critically ill patients. Emphasis is on rapid assessment, setting priorities, rapid decision-making and appropriate nursing interventions. The course includes cases with cardiovascular, pulmonary, renal, neurologic, and multisystem alterations. The student chooses one from this cluster.

### **BNSC 3207 Acute/Critical Care Nursing (2 CU)**

This course introduces the student to care for critically ill patients.

### **BNSC 3208 Quality Health Care and Nursing (2 CU)**

This course deals with the concepts, principles and dimensions of quality health care, quality standards for Health Provider, how Organizations is implementing. Performance Improvement/management program in the health care system.

### **BNSC 3209 Care of the Chronically ill and the Older Person (2 CU)**

It deals with the concepts, principles and techniques of nursing care management of those with chronic illness and the older persons.

## DIPLOMA IN NURSING COURSE DESCRIPTIONS

### **DNUR 1101 Anatomy & Physiology I**

The Course unit will introduce the student to the Anatomy and Physiology of the human body. In this course unit, the student shall be able to identify and understand the functioning of the different human body parts. This course unit shall include an introduction to anatomy and physiology in general and particular, cover the anatomy and physiology of the skeletal, muscular, circulatory and digestive systems.

### **DNUR 1102 Foundations of Nursing I**

This course unit shall enable the student to get equipped with knowledge and understanding of ethical standards of nursing, prevention and control of infections. It will also guide the student in skills acquisition in a number of areas including basic nursing care, bed making, taking vital observations as well as patient hygiene practices.

### **DNUR 1103 First Aid and Emergency**

This course unit shall introduce the student to the concepts, principles and first aid in practice. The student shall be guided to understand the principles, aims as well as rules and guidelines in performing first aid in life-threatening situations such as shock, cardiac arrest, wounds, epilepsy, asphyxia, drowning, choking and hemorrhage.

### **DNUR 1104 Microbiology**

This course unit shall introduce students to the concept of Microbiology and its importance to medical science. It will enable the student to describe the common disease – causing microorganism and parasites, identify different microorganisms and parasites and describe immunity and immunization.

### **DNUR 1105 Personal and Communal Health**

The course unit shall cover elements of personal health as well as principles of maintaining a healthy environment. Importance of personal hygiene. The student will be able to identify and break up the disease transmission cycle, explain the pillars, elements, components and principles of PHC and also to promote health care services.

### **DNUR 1106 Sociology**

This course unit will equip the students with knowledge of identifying and explaining socio-cultural factors influencing individual behavior in relation to illness. Applying the functional understanding of sociology that reinforces positive health seeking practices and also applying sociological techniques to help patients comply to treatment.

### **DNUR 1107 Psychology**

This course unit shall cover psychological factors that influence individual behavior in relation to illness. The student will be able to apply the functional understanding of Psychology that reinforces positive health seeking practices and also apply psychological techniques to help patients comply with treatment.

### **DNUR 1108 Guidance and counselling**

This course unit covers aspects of guidance and counselling to various groups of people. The students shall acquire knowledge and skills to describe the situations where guidance and counseling can be applied, discuss the difference between guidance and counselling techniques, describe the qualities of a good counselor and explaining the methods of communication used in counseling. To enhance their competences in real life situations the skills will be acquired through role plays.

### **DNUR 1109 Practical I**

This course unit shall cover general rules of bed making, identification of hospital, bed appliances, aims of bed making in hospital. Understanding the set-up and equipment used in the skills lab, using equipment and instruments in the skills lab.

### **DNUR 1210 Anatomy and Physiology II**

In this course unit, the content covered shall comprise of the Anatomy and Physiology of the Respiratory, Urinary, Reproductive, Nervous, and Endocrine systems. Also to be included in this course unit will be the Anatomy and Physiology of the organs of special senses.

### **DNUR 1211 Foundations of Nursing II**

In this course unit, the students continue learning and understanding of the foundational studies in Nursing Sciences; performing nursing care, explaining the Nursing processes, Administration of prescribed medicines, Admission, Transfer and discharge of patients.



### **DNUR 1212 Pharmacology I**

This course unit shall focus on introductory aspects of Pharmacology; understanding the terms, concepts and principles used in pharmacology. Stating the medicines comprising the Essential drug list. The students will be able to read and interpret as well as explain to patients written medicine prescription, carry out proper storage of medicines, administer different drugs to patients, explain the legal aspects and national policy guidelines as prescribed in the Uganda Pharmacy and Drug Legislation (Pharmacy and drug Act) and also to control and regulate usage of drugs according to existing guidelines and regulations.

### **DNUR 1213 Surgical Nursing I**

The course unit is intended to provide students with the opportunity to learn techniques and approaches of providing nursing care for conditions related to surgical attention. The content in this unit includes; introduction to surgical nursing, common surgical conditions, pre-and post-operative management, natural body defense mechanisms and specific surgical conditions. And also managing common surgical infections.

### **DNUR 1214 Medical Nursing I**

This course unit is intended for students to acquire competencies in identifying and managing common medical conditions affecting circulatory, respiratory, digestive and conditions of hematology. Provide nursing care to various medical conditions in the above categories and also to identify cases in the above category of medical conditions for referral.

### **DNUR 1215 Pediatric Nursing I**

The course unit covers the key aspects of a sick child nursing to help the student fit within the different task descriptions of health care provision. The student shall acquire knowledge on the principles of pediatrics, describe the process of a normal child growth and development, identify congenital abnormalities, birth injuries of a new born and manage or refer. Explain nutritional needs of children and explain management of a sick new born.

### **DNUR 1216 Practical II**

This course unit introduces the general principles for all nursing procedures, and all the steps in carrying out any nursing procedure, ethical standards; patient's rights, importance of law to nurses and the Uganda Nurses and Midwives Act.

### **DNUR 2117 Pharmacology II**

This course unit will enhance the students' knowledge in identifying class, generic name, brand name indication, dose, mode of action of common medicines. State contra-indications of common medicines. Explain side effects, adverse effects of common medicines and their management. Understand the types, formulations ordering, storage and legal implication of narcotics, dispense medicines according to prescription.

### **DNUR 2118 Medical Nursing II**

This course unit covers conditions of the digestive, urinary, endocrine, musculo-skeletal and central nervous systems. Skills in providing nursing care to patients diagnosed with those conditions.

### **DNUR 2119 Surgical Nursing II**

This course unit is intended to provide students with knowledge and skills in identifying and managing surgical conditions of the head, neck, chest the abdominal cavity, ano-rectal as well as the genital urinary systems.

### **DNUR 2120 Gynecological Nursing I**

This course focuses on the key aspects of different gynecological conditions in women in order to enable a student to care for females with health conditions while in clinical and community settings. A student will acquire knowledge and skills to promote the health of women.

### **DNUR 2121 Tropical Medicine**

The course unit shall cover aspects of tropical medicine; describe causes/predisposing factors, clinical features of the common tropical diseases. Provide nursing care to patients with common tropical diseases. Conduct preventive measures to communicable diseases.

### **DNUR 3122 Community Health Nursing 1**

This delivery mode includes community clinical application in hands on practice in the following areas; care for condition of the head like applying scalp bandage, preparing a patient for a neurological examination, surgical conditions of the neck like performing oral care, conditions of the chest like performing breast examination and bandaging a breast stamp.

### **DNUR 2123 Reproductive Health I**

This course unit introduces the students to the structure and functions of the female reproductive organs, the common gynecological conditions. The students will be able to describe the management, preventive measures of common gynecological conditions and to explain the physiology of menstruation and state the disorders of menstruation.

### **DNUR 2124 Mental Health Nursing**

In this course unit, the student shall be introduced to the concept of mental health; introduction to common mental health conditions, psychiatric nursing interventions to the common conditions as well as emergencies.

### **DNUR 2125 Practical III**

This course unit continues to cover nursing procedures like; performing colostomy care, wound dressing, preparation of lumbar puncture, performing catheterization and tracheostomy care.

### **DNUR 2226 Pharmacology III**

In this course unit the students shall be able to identify class, mode of action, indications of common hormonal, antineoplastic and antipsychotic medicines, side effects, contra-indications, precautions of these medicines. Practice effective medicine management. Monitor and manage adverse side effects of drugs and apply then nursing process in the management and administration of drugs.

### **DNUR 2227 Medical Nursing III**

This course unit continues to focus on aspects of identifying common medical conditions affecting circulatory, respiratory, digestive and conditions of haematology and describing the management of these conditions. Providing nursing care to various medical conditions in the above aspects and to identify cases in the above category of medical conditions for referral.

### **DNUR 2228 Surgical Nursing III**

This course unit shall enable the student to get equipped with knowledge of identifying surgical conditions that call for specialized nursing. Use nursing process to manage



patients with life threatening surgical conditions. Appreciate the need for specialized surgical nursing care. Manage patients with various conditions of ear, nose and throat (ENT), dental, oral, and eye. Provide palliative care to terminally ill patients.

#### **DNUR 2229 Pediatric Nursing II**

This course covers the key aspects of a sick child within the context of the family, across range of clinical and community settings. It consists of a range of childhood conditions which will enable the students to identify the conditions and be able to apply the knowledge, skills and attitudes within medical settings and the community.

#### **DNUR 2230 Mental Health Nursing II**

This course unit will enable the students to describe treatment modalities used in psychiatric nursing. Identify and manage psychiatric emergencies. Discuss medico-legal issues in psychiatry. Identify and manage childhood psychiatric disorders.

#### **DNUR 2231 Practical IV**

This delivery mode shall include hands on practice on performing specialized nursing care including; dressing wounds, removing sutures and clips, caring for under water seal drainages, performing gastrostomy feeding and passing nasal gastric tube in critically ill patients.

#### **DNUR 2232 Foundations of Nursing III**

In this course unit, the students continue learning and understanding of the foundational studies in Nursing Sciences; performing nursing care, explaining the Nursing processes, Administration of prescribed medicines, Admission, Transfer and discharge of patients.

#### **DNRE 3101 Applied Research I**

In this course unit, the students shall be able to learn research methodologies, write a research report and disseminate the findings.

#### **DNUR 3134 Leadership and management**

This course unit covers the student's aspect of leadership and management; to gain skills, knowledge and attitude in management of the ward and lower health sub units, managing the human resource (staff), patients, attendants and other stakeholders.

#### **DNUR 3135 Teaching Methodology**

This course unit will equip the students with teaching skills; identifying target groups and carrying out learning needs assessments. Make a teaching/learning plan and develop teaching content. Evaluate the teaching/learning process.

#### **DNUR 3136 Palliative Care**

The course unit shall cover concepts of palliative care, carry out pain assessment and management of common symptoms in palliative care and psychosocial support to terminally ill patients.

#### **DNUR 3137 Disaster Management**

In this course unit the students will be able to describe disaster and emergency preparedness. To prevent and manage different types of disasters.

#### **DNUR 3138 Occupational Health and Safety**

This course unit will equip the student with safe work environment and prevention of occupational hazards at work place. Knowledge and skills to be able to transfer the

acquired competencies to workers in various areas so that the workers can protect themselves from hazards. And to apply the workers' compensation Act.

#### **DNUR 3139 Practical V**

This practical session exposes the student to conditions of the ear, nose and throat; like ear wicking, admitting children involved in home accidents, educating mothers on prevention of home accidents and exposure to the community in; community entry, community diagnosis, community improvement, community exit.

#### **DNUR 3240 Pediatric Nursing III**

This course continues to cover the management of medical conditions affecting the nervous system, special senses and home accidents and integrated management of neonatal and childhood illnesses.

#### **DNUR 3241 Gynecological Nursing II**

The course unit is intended to provide students with knowledge of how to manage gynaecological conditions affecting women and to manage a mother in the 2<sup>nd</sup> stage of labour.

#### **DNUR 3242 Community Health II**

This course unit is intended for students to carry out community entry, assessment, diagnosis, planning, implementation and evaluation. Carry out community sensitization of health promoting practices and achieve community involvement and participation.

#### **DNUR 3243 Reproductive Health II**

In this course unit the student will be able to describe the components of reproductive health, manage complications related to reproductive health and manage adolescents with challenges during adolescent period.

#### **DNUR 3239 Health Services Management**

This course unit covers the student's aspect of health services management; to gain skills, knowledge and attitude in management of the ward and lower health sub units, managing the human resource (staff), patients, attendants and other stakeholders.

#### **DNRE 3202 Applied Research II**

In this course unit, the students shall be able to learn research methodologies, write a research report and disseminate the findings.

#### **DNUR 3245 Practical VI**

This delivery mode will include the Art, clinical application and soft skills on Hands on practice in communication and other procedures like; Organizing meetings, generating reports, carrying out pain assessment in palliative care, using personal protective equipment, health care waste management, applying injection safely methods, participating in documentation of information, operating fire extinguishers.

### **CERTIFICATE IN NURSING COURSE DESCRIPTIONS**

#### **CNUR 1101 Anatomy and Physiology I**

The Course unit will introduce the student to the Anatomy and Physiology of the human body. In this course unit, the student shall be able to identify and understand the functioning of the different human body parts. This course unit shall include an introduction to anatomy and physiology in general and particular, cover the anatomy and physiology of the skeletal, muscular, circulatory and digestive systems.

### **CNUR 1102 Foundations of Nursing I**

This course unit shall enable the student to get equipped with knowledge and understanding of ethical standards of nursing, prevention and control of infections. It will also guide the student in skills acquisition in a number of areas including basic nursing care, bed making, taking vital observations as well as patient hygiene practices.

### **CNUR 1103 First Aid and Emergencies**

This course unit shall introduce the student to the concepts, principles and first aid in practice. The student shall be guided to understand the principles, aims as well as rules and guidelines in performing first aid in life-threatening situations such as shock, cardiac arrest, wounds, epilepsy, asphyxia, drowning, choking and hemorrhage.

### **CNUR 1104 Microbiology**

This course unit shall introduce students to the concept of Microbiology and its importance to medical science. Students shall be introduced to classification of microorganisms, their characteristics as well as their role in the spread of infection and disease. Students shall also familiarize with simple microbial laboratory tests. Concepts of immunity and immunization against common diseases shall also be covered.

### **CNUR 1105 Personal and Communal Health**

The course unit shall cover elements of personal health as well as principles of maintaining a healthy environment. Hygiene practices for health promotion will be discussed as well as behavior changes necessary for successful implementation of proper sanitation.

### **CNUR 1106 Practical I**

This course unit shall cover general rules of bed making, identification of hospital, bed appliances, aims of bed making in hospital.

### **CNUR 1207 Anatomy and Physiology II**

In this course unit, the content covered shall comprise of the Anatomy and Physiology of the Respiratory, Urinary, Reproductive, Nervous, and Endocrine systems. Also to be included in this course unit will be the Anatomy and Physiology of the organs of special senses.

### **CNUR 1208 Foundations of Nursing II**

In this course unit, the students continue learning and understanding of the foundational studies in Nursing Sciences; Nursing care, Bandaging of injured body parts, Nursing processes, Administration of prescribed medicines, Admission, Transfer and discharge of patients.

### **CNUR 1209 Sociology**

This course unit is an introduction on the human behavior and how it is influenced by culture, beliefs, attitude and how all these factors relate to human health and access to health services.

### **CNUR 1210 Psychology**

This course unit shall cover concepts of psychology, psychological development, personality, psychological aspects in nursing care of patients, mental defense mechanisms, stress and stress factors and emotions.

### **CNUR 1211 Primary Health Care**

This course unit shall cover the aspects of Primary Health Care that are important in the delivery of health services. Emphasis shall be on the roles of a Certificate Nurse in the promotion of community health as well as early child development activities in the community. The student shall be exposed to the pillars of Primary Health Care implementation.

### **CNUR 1212 Practical II**

This course unit introduces the general principles for all nursing procedures, and all the steps in carrying out any nursing procedure, ethical standards; patient's rights, importance of law to nurses and the Uganda Nurses and Midwives Act.

### **CNUR 2113 Pharmacology I**

This course unit shall focus on introductory aspects of Pharmacology. The aim is for nursing students to understand terms and concepts used in administration of medicine. Students shall also learn concepts in the different medicine classifications, control and use in human medicine in general.

### **CNUR 2114 Medical Nursing I**

This course unit is intended for students to acquire competencies in providing high quality evidence based nursing care in traditional as well as innovative health care settings. This will mainly cover introduction to medical nursing, study of conditions of circulating, respiratory systems and conditions of hematology.

### **CNUR 2115 Surgical Nursing I**

The course unit is intended to provide students with the opportunity to learn techniques and approaches of providing nursing care for conditions related to surgical attention. The content in this unit includes; introduction to surgical nursing, common surgical conditions, pre-and post-operative management, natural body defense mechanisms and specific surgical conditions.

### **CNUR 2116 Pediatric Nursing I**

The course unit covers the key aspects of a sick child nursing to help the student fit within the different task descriptions of health care provision. The student shall be instructed to acquire knowledge and skills on how to put all the care aspects of children from early childhood.

### **CNUR 2117 Gynecological Nursing I**

This course focuses on the key aspects of different gynecological conditions in women in order to enable a student to care for females with health conditions while in clinical and community settings. A student will acquire knowledge and skills to promote the health of women.

### **CNUR 2118 Practical III**

This course unit continues to cover nursing procedures like; performing colostomy care, wound dressing, preparation of lumbar puncture, performing catheterization and tracheostomy care.

### **CNUR 2119 Palliative Care Nursing**

This course unit equips the students with skills of palliative care to terminally ill patients at the recommended competence level.

### **CNUR 2220 Pharmacology II**

This course unit is intended for students to identify the class and indications of commonly used medicines, describing contra-indications of common medicines, explaining side effects of the common medicines, requisitioning and dispensing medicines according to prescription.

### **CNUR 2221 Medical Nursing II**

This course unit covers conditions of the digestive, urinary, endocrine, musculo-skeletal and central nervous systems. Skills in providing nursing care to patients diagnosed with those conditions.

### **CNUR 2222 Surgical Nursing II**

This course unit is intended to provide students with knowledge and skills in identifying and managing surgical conditions of the head, neck, chest the abdominal cavity, ano-rectal as well as the genital urinary systems.

### **CNUR 2223 Pediatric Nursing II**

This course covers the key aspects of a sick child within the context of the family, across range of clinical and community settings. It consists of a range of childhood conditions which will enable the students to identify the conditions and be able to apply the knowledge, skills and attitudes within medical settings and the community.

### **CNUR 2224 Mental Health Nursing**

In this course unit, the student shall be introduced to the concept of mental health; introduction to common mental health conditions, psychiatric nursing interventions to the common conditions as well as emergencies.

### **CNUR 2225 Practical IV**

This course unit continues to prepare a student practically by applying the Nursing Process in the management of patients; Taking history of patients, performing physical examination of the patient, making a Nursing care plan, administering oral medicine, administering parenteral medicines, preparing and monitoring patient on blood transfusion, carrying out sterilization and disinfection.

### **CNUR 2226 Occupational Health**

This course unit will equip the student with safe work environment and prevention of occupational hazards at work place. Knowledge and skills to be able to transfer the acquired competencies to workers in various areas so that the workers can protect themselves from hazards.

### **CNUR 3127 Tropical Medicine**

The course unit shall cover aspects of tropical medicine/communicable diseases, major focus shall be on providing nursing care to patients affected by tropical disease as well as the preventive measures.

### **CNUR 3128 Guidance and Counselling**

This course unit covers aspects of guidance and counselling to various groups of people. The students shall acquire knowledge and skills to provide guidance and counselling to people of various life situations. To enhance their competences in real life situations through role plays.

### **CNUR 3129 Surgical Nursing III**

This course unit provides students with an opportunity to acquire knowledge and skills in the management of conditions of the ear, nose and throat (ENT), dental, oral and eye and also provide palliative care to patient with various terminal conditions.

### **CNUR 3130 Reproductive Health**

This course unit covers the key aspects in the management of integrated health services which include family planning, sexually Transmitted Infections (STIs) and adolescent reproductive health services. Management of labour; 2<sup>nd</sup> and 3<sup>rd</sup> stages and timely referrals. The student shall acquire these skills within clinical and community settings.

**CNUR 3131 Health Services Management**

This course unit covers the student's aspect of health services management; to gain skills, knowledge and attitude in management of the ward and lower health sub units, managing the human resource (staff), patients, attendants and other stakeholders.

**CNUR 3132 Practical V**

This course unit will equip a student on how to prepare, confirm and conduct all stages of labour, examination of the placenta, care of the baby's cord, referral system for mothers and health educate mothers.

## DEPARTMENT OF NUTRITION, FOOD SCIENCE AND TECHNOLOGY

**Ag. Head/Coordinator;** Apolot M. Gorret, MSc (Applied Hum. Nutr.) (Makerere), BSc (Food Sci. & Nutr) (IUIU).

### BACHELOR OF SCIENCE IN FOOD TECHNOLOGY & HUMAN NUTRITION (FOUR (4) YEARS PROGRAM)

#### Credit Summary for Graduation

Major Concentration	129
Cognates	31
Research	06
Industrial Training /Internship	06
General Education	21
<b>Total Credits</b>	<b>193</b>

#### Concentration in Food Technology & Human Nutrition (129 Credit Units)

Course Code	Course Title	CU
BFNT 1101	Introduction to Food Science, Technology and Nutrition Science	4
BFNT 1202	Fundamentals of Food Packaging	3
BFNT 1203	Food Microbiology	4
BFNT 1204	Technology of Dairy Products	3
BFNT 1205	Food Chemistry	4
BFNT 2106	Post-Harvest Technology	3
BFNT 2107	Food Engineering	4
BFNT 2108	Food Analytical Methods	4
BFNT 2109	Chemistry and Technology of Oils and Fats	3
BFNT 2110	Estates and Plantation Crops Technology	3
BFNT 2111	Meat, Fish and Poultry products Technology	3
BFNT 2212	Food Processing and Preservation Techniques	4
BFNT 2213	Food Quality Management and Legislation	3
BFNT 2214	Food Product Development and Innovation	3
BFNT 2215	Cereal Science and Technology	3
BFNT 2216	Sensory Analysis and Evaluation	3
BFNT 2217	Food Safety and Hygiene	3
BFNT 3118	Feed Manufacturing Technology	3
BFNT 3119	Endocrinology and Metabolism	3
BFNT 3120	General Patient Care Skills for Nutritionists	3
BFNT 3121	Sports Nutrition	3
BFNT 3122	Nutrition Management in Emergencies	4
BFNT 3223	Nutrition, Dietetics and Disease Prevention	4
BFNT 3224	Nutrition and Human Life cycle	4
BFNT 3225	Occupational Health and Safety	3
BFNT 3226	Production Economics	3
BFNT 3227	Medical Nutrition Therapy	4
BFNT 4128	Principles of Nutritional Genomics	3
BFNT 4129	Food Commodities, biopolymer ingredients & mixtures	4
BFNT 4130	Waste Management Technology	3
BFNT 4131	Nutrition Assessment and Surveillance	3
BFNT 4132	Agricultural and Food Marketing	3

BFNT	4133	Nutritional Sufficiency, Therapy and Kinetics	4
BFNT	4234	Macro molecules and Rheology	3
BFNT	4235	Nutrition Education, Counselling & Community Health	4
BFNT	4236	Food and Nutrition Security	3
BFNT	4237	Food Fermentation Technology	3
BFNT	4238	Principles of Geriatric Nutrition	3
BFNT	4239	Food Enzymology	3

**Cognate Courses (31 Credit Units)**

Course Code	Course Title	CU
BECO 1101	Micro Economics	3
BIOS 1104	Principles of Human Anatomy & Physiology	4
BSMT 1101	General Mathematics	2
BNSC 1206	Biochemistry	4
BRSH 2202	Biostatistics	3
BAPN 3101	Animal Nutrition	3
BGCP 4202	Rural Sociology & Gender Issues	3
BFPI 3204	Principles of Immunology	3
BLAW 4103	Medical Ethics & Law	3
BFBS 4202	Project Management & Entrepreneurship Skills	3

**General Education Courses (21 Credit Units)**

Course Code	Course Title	CU
GECR 1101	Christian Beliefs	3
GECH 1101	Health Principles	3
GECC 1101	Fundamentals of Computer and Office Applications	4
GECL 1101	Introduction to Writing Skills	3
GECS 1201	Issues in Science and Religion	3
GECV 1201	Motor Vehicle Driving	2
GECA 1201	Philosophy of Christian Education	3

**Research Project (06 Credit Units)**

BREM 2201	Research Methods	3
BREP 3102	Research Project	3

**Industrial Training/Internship (06 Credit Units)**

BINT 2301	Field Attachment/Internship	I	3
BINT 3302	Field Attachment/Internship	II	3

**Recommended Course Schedule Semester Wise****First Year Semester 1**

Code	Name	LH	TH	PH	CH	CU
BFNT 1101	Introduction to Food Science, Technology & Nutrition Science	45	00	30	60	4
BECO 1101	Micro Economics	30	30	00	45	3
BIOS 1104	Principles of Human Anatomy & Physiology	30	00	30	45	3
BSMT 1101	General Mathematics	15	30	00	30	2
GECC 1101	Fundamentals of Computer & Office Applications	30	30	30	60	4
GECC 1101	Introduction to Writing Skills	30	30	00	45	3
GECL 1101	Christian Beliefs	30	30	00	45	3

**Total Credits****22**



**First Year Semester 2**

Code	Name	LH	TH	PH	CH	CU
BFNT 1202	Fundamentals of Food Packaging	30	00	30	45	3
BFNT 1203	Food Microbiology	30	00	60	60	4
BFNT 1204	Technology of Dairy Products	30	00	30	45	3
BFNT 1205	Food Chemistry	30	00	60	60	4
BNSC 1206	Biochemistry	30	00	60	60	4
GECA 1201	Philosophy of Christian Education	30	30	00	45	3
GECS 1201	Issues in Science & Religion	30	30	00	45	3
<b>Total Credits</b>						<b>24</b>

**Second Year Semester 1**

Code	Name	LH	TH	PH	CH	CU
BFNT 2106	Post-Harvest Technology	30	00	30	45	3
BFNT 2107	Food Engineering	45	30	00	60	4
BFNT 2108	Food Analytical Methods	30	00	60	60	4
BFNT 2109	Chemistry & Technology of Oils & Fats	30	15	15	45	3
BFNT 2110	Estates & Plantation Crops Technology	30	00	30	45	3
BFNT 2111	Meat, Fish & Poultry products Technology	30	15	15	45	3
GECH 1101	Health Principles	30	30	00	45	3
<b>Total Credits</b>						<b>23</b>

**Second Year Semester 2**

Code	Name	LH	TH	PH	CH	CU
BFNT 2212	Food Processing & Preservation Techniques	30	00	60	60	4
BFNT 2213	Food Quality Management & Legislation	30	15	15	45	3
BFNT 2214	Food Product Development & Innovation	30	00	30	45	3
BFNT 2215	Cereal Science & Technology	30	00	30	45	3
BFNT 2216	Sensory Analysis & Evaluation	30	00	30	45	3
BFNT 2217	Food Safety & Hygiene	30	00	30	45	3
BRSH 2202	Biostatistics	30	00	30	45	3
GECV 12--	(Vocation course)	15	30	0	30	2
<b>Total Credits</b>						<b>24</b>

**Summer Period (June-August)**

Code	Name	LH	TH	PH	CH	CU
BINT 2301	Industrial Training / Internship I	00	00	90	90	3
<b>Total Credits</b>						<b>03</b>

**Third Year Semester 1**

Code	Name	LH	TH	PH	CH	CU
BFNT 3118	Feed Manufacturing Technology	30	00	30	45	3
BFNT 3119	Endocrinology & Metabolism	30	00	30	45	3
BFNT 3120	General Patient Care Skills for Nutritionists	30	00	30	45	3
BFNT 3121	Sports Nutrition	30	00	30	45	3

BFNT	3122	Nutrition Mgt in Emergencies	45	30	00	60	4
BAPN	3101	Animal Nutrition	30	00	30	45	3
BGCP	4202	Rural Sociology & Gender Issues	30	00	30	45	3
<b>Total Credits</b>							<b>22</b>

**Third Year Semester 2**

Code	Name	LH	TH	PH	CH	CU	
BFNT	3223	Nutrition Dietetics & Disease Prevention	30	00	60	60	4
BFNT	3224	Nutrition & Human Life cycle	30	00	60	60	4
BFNT	3225	Occupational Health & Safety	30	00	30	45	3
BFNT	3226	Production Economics	30	00	30	45	3
BFNT	3227	Medical Nutrition Therapy	30	00	60	60	4
BREM	2201	Research Methods	30	00	30	45	3
BFPI	3204	Principles of Immunology	30	00	30	45	3
<b>Total Credits</b>							<b>24</b>

**Summer Period (June-August)**

Code	Name	LH	TH	PH	CH	CU	
BINT	3302	Industrial Training /Internship II	00	00	90	90	3
BREP	3102	Research project	00	00	90	90	3
<b>Total Credits</b>							<b>06</b>

**Fourth Year Semester 1**

Code	Name	LH	TH	PH	CH	CU	
BFNT	4128	Principles of Nutritional Genomics	30	00	30	45	3
BFNT	4129	Food Commodities, biopolymer ingredients & mixtures	30	00	60	60	4
BFNT	4130	Waste Management Technology	30	15	15	45	3
BFNT	4131	Nutrition Assessment & Surveillance	30	00	30	45	3
BFNT	4132	Agricultural & Food Marketing	30	15	15	45	3
BFNT	4133	Nutritional Sufficiency, Therapy & Kinetics	45	30	00	45	4
BLAW	4103	Medical Ethics & Law	45	00	00	45	3
<b>Total Credits</b>							<b>23</b>

**Fourth Year Semester 2**

Code	Name	LH	TH	PH	CH	CU	
BFNT	4234	Macro molecules & Rheology	30	00	30	45	3
BFNT	4235	Nutrition Education, Counselling & Community Health	30	00	60	60	4
BFNT	4236	Food & Nutrition Security	30	00	30	45	3
BFNT	4237	Food Fermentation Technology	30	00	30	45	3
BFNT	4238	Principles of Geriatric Nutrition	30	00	30	45	3
BFNT	4239	Food Enzymology	30	00	30	45	3
BFBS	4202	Project Management & Entrepreneurship Skills	30	30	00	45	3
<b>Total Credits</b>							<b>22</b>

## DIPLOMA IN FOOD SCIENCE AND PROCESSING TECHNOLOGY (DFST)

### Program Credit Requirement Summary

Major Concentration	55
Cognates	09
Research	07
Industrial Training /Internship	06
General Education	13
<b>Total Credits</b>	<b>87</b>

### Major Concentration (55 Credit Units)

Course Code	Course Title	CU
DFST 1101	Introduction to Food Science & Processing and Human Nutrition	4
DFST 1102	Introduction to Food Engineering	3
DFST 1105	Sensory Analysis & Evaluation	3
DFST 1106	Fundamentals of Food Packaging Technology	4
DFST 1203	Fundamentals of Food Safety & Hygiene	3
DFST 1204	Food processing and Preservation Techniques	3
DFST 1207	Food Microbiology & Analysis	3
DFST 1208	Technology of Dairy Products	3
DFST 2109	Technology of Oils and Fats	3
DFST 2110	Estates & Plantation Crops Technology	3
DFST 2111	Techniques in Food Analysis	3
DFST 2112	Fundamentals of Post-Harvest Food processing	3
DFST 2113	Technology of Meat, Fish & Poultry Products	3
DFST 2214	Food Quality Management and Legislation	3
DFST 2215	Food Product Development & Entrepreneurship Skills	3
DFST 2216	Food Biotechnology	3
DFST 2217	Bakery and Cereal Technology	3
DFST 2218	Food Chemistry and analysis	3

### Cognates (09 Credit Units)

Course Code	Course Title	CU
DMAT 2101	General Mathematics	3
DSLIT 1206	Laboratory and Workplace Management skills	3
BMKT 2103	Marketing Communication & Strategy	3

### Research (07 Credit Units)

DREM 2101	Research Methods and Biostatistics	4
DREP 3202	Research Project	3

### General Education Courses (13 Credit Units)

Course Code	Course Title	CU
GECH 1101	Health Principles	3
GECC 1101	Fundamentals of Computers and Office Applications	4
GECL 1101	Introduction to Writing Skills	3
GECL 1101	Christian Beliefs	3

### Recommended Course Schedule Semester wise First Year Semester 1

Code	Name	LH	TH	PH	CH	CU
DFST 1101	Intro. to Food Science & Processing Technology and Human Nutrition	45	00	30	60	4

DFST	1102	Introduction to Food Engineering	30	15	45	45	3
GECL	1101	Christian Beliefs	30	15	00	45	3
GECH	1101	Health Principles	30	15	00	45	3
GECC	1101	Fundamentals of Computer & Office Applications	30	15	45	60	4
GECL	1101	Introduction to Writing Skills	30	30	00	45	3
<b>Total Credits</b>							<b>20</b>

**First Year 1 Semester 2**

Code	Name	LH	TH	PH	CH	CU	
DFST	1203	Fundamentals of Food Safety & Hygiene	30	15	45	45	3
DFST	1204	Food Processing and Preservation Techniques	30	15	45	45	3
DFST	1205	Sensory Analysis & Evaluation	30	15	45	45	3
DFST	1206	Fundamentals of Food Packaging	30	15	45	45	3
DFST	1207	Food Microbiology & Analysis	30	15	45	45	3
DFST	1208	Technology of Dairy Products	30	15	45	45	3
DSLTL	1206	Lab & Workplace Mgt Practices	30	15	45	45	3
<b>Total Credits</b>							<b>24</b>

**Summer Period (May-July)**

Code	Name	LH	TH	PH	CH	CU	
DINT	1301	Internship Industrial Attachment I	00	00	90	45	3

**Second Year Semester 1**

Code	Name	LH	TH	PH	CH	CU	
DFST	2109	Technology of Oils and Fats	30	15	45	45	3
DFST	2110	Estates & Plantation Crops Tech	30	15	45	45	3
DFST	2111	Techniques in Food Analysis	30	15	45	45	3
DFST	2112	Fundamentals of Post-Harvest Food processing	30	30	30	45	3
BMKT	2103	Marketing Communication & Strategy	45	30	15	45	3
DREM	2101	Research Methods and Biostatistics	30	30	30	45	4
DMAT	2101	General Mathematics	45	45	00	45	3
<b>Total Credits</b>							<b>19</b>

**Second Year Semester 2**

Code	Name	LH	TH	PH	CH	CU	
DFST	2213	Technology of Meat, Fish & Poultry Products	30	30	30	45	3
DFST	2214	Food Quality Mgt & Legislation	45	15	30	45	3
DFST	2215	Food Product Development & Entrepreneurship Skills	45	30	15	45	3
DFST	2216	Food Biotechnology	30	15	45	45	3
DFST	2217	Bakery and Cereal Technology	30	15	45	45	3
DFST	2218	Food Chemistry & Analysis	30	15	45	45	3
DREP	2202	Research Project	00	00	90	45	3
<b>Total Credits</b>							<b>21</b>

**Summer Period**

Code	Name	LH	TH	PH	CH	CU	
DINT	2302	Internship Industrial Attachment II	00	00	90	45	3

## COURSE DESCRIPTIONS FOR FOOD TECHNOLOGY AND NUTRITION

### **BFNT 1101 Introduction to Food Science & Technology and Nutrition Science**

This course is designed to give an introduction to Food Science, Food Technology and human nutrition, its scope and importance. It describes the terminologies used in nutrition; elements of nutrition; the role, functions and effects of deficiency of food macro and micro nutrients; the process and systems involved in human digestion, the importance of food science, technology, characteristics of food industries; unit operations of the food industry; relationship between agriculture, food and nutrition of the food industry; the concept of the leaky food pipeline and food components. It also has an introduction to methods of food processing and preservation as well as the elements of food acceptance and quality control.

### **BFNT 1202 Fundamentals of Food Packaging**

The course is designed to provide a detailed basis to understand fundamental principles of food packaging. Topics covered in this course include: introduction to food packaging, fundamentals of food packaging, physical and chemical properties of packages (traditional and modern packages) packaging development, factors determining choice of packaging material, graphic design and printing of food packaging materials, manufacture of packaging materials (glass, metals, paperboard, corrugated paperboard, plastics and laminates) in the food industry, closure systems and labelling, packaging designs, packaging requirements of different foods (soft beverages and alcoholic drinks, meat, fish and poultry, milk and milk products, fruits and vegetables, cereal and cereal products, bio packaging, standards and legal requirements for food packaging materials and food packaging waste and legislation of packaging materials.

### **BFNT 1203 Food Microbiology**

This is a practical based course that introduces food microbiology; microbial ecology of foods (effects of water activity, pH, temperature, etc.); significance, characteristics and control of important organisms; food borne illness; practical culture-based microbiological examination of foods. The course also introduces important foodborne pathogens, food preservation, food spoilage, food fermentation.

### **BFNT 1204 Technology of Dairy Products**

This course provides a detailed examination of liquid, dehydrated, fractionated and frozen dairy products. The main focus of the course is put on: Primary milk production, overview of milk and dairy products, technology and quality of liquid milks, cream, milk powders, casein and caseinates, whey processing and ice cream. The course also introduces functional properties and applications of milk proteins.

### **BFNT 1205/DFST 2218 Food Chemistry**

The course introduces students to the chemistry which underlies food constituents. The course also provides an in-depth discussion of the chemical and physical properties of food proteins. Topics include composition, physico-chemical properties and functions of the various food components and additives. The course provides a detailed discussion of the chemical properties of food constituents under different processing treatments. Focus is on structural and compositional changes of the various food components as well as their possible effects on food functionality and health.

### **BFNT 2106/DFST 2112 Post-Harvest Technology**

This course introduces the factors that result in loss of quality characteristics of plant and animal produce and discusses how such losses can be minimized by proper and

effective handling of the fresh produce, from farm to market. The course also covers the different aspects of post-harvest processes and the products derived from fresh produce (Perishable and nonperishable). The roles of irradiation and packaging in extending the shelf-life of animal and plant produce including other appropriate storage technologies.

### **BFNT 2107 Food Engineering**

This course is designed to provide students with knowledge, skills and competencies needed to understand the engineering concepts and principles involved in food various food processing situations. The course provides basic understanding of unit operations; process flow and design; materials balances; energy balance; laws of thermodynamics, flow of fluids, transport processes: momentum transfer, heat transfer, mass transfer; process economics; chemical reactors; batch or continuous operation.

### **BFNT 2108/DFST 2111 Food Analytical Methods**

The purpose of this course is to expose students to the principles, methods, and techniques of qualitative and quantitative physical, chemical and biochemical analyses of foods. Throughout the course, major emphasis will be placed on understanding the basic principles of classical and instrumental methods of analysis, with lesser emphasis on details of specific methods. Criteria for the choice of various analytical methods will be presented. Methods of treating data and sampling techniques will be studied. Lecture topics will focus on common methods of proximate analysis and related techniques used in analysis of food and food ingredients.

### **BFNT 2109/DFST 2109 Chemistry and Technology of Oils & Fats**

The course presents a detailed overview of key aspects of the chemistry and technology of food fats. Topics of emphasis in this course include: classification and stability of fats and oils, physical and chemical properties of fats and oil, extraction and refining of fats and oils, modification of fats and oils, chemistry of frying, storage of fats and oils. Fats and oils products and their properties, quality assessment methods including tests for adulteration.

### **BFNT 2110/DFST 2110: Estates and Plantation Crops Technology**

This course is designed to describe the overview of coffee, cocoa, tea and sugar in Uganda. It also describes the pre- and post-harvest quality requirements for estate crops; processing technologies for tea, coffee, cocoa and sugar cane and quality assurance in estate crops e.g. liquoring, tasting and physico-chemical tests.

### **BFNT 2111/DFST 2113 Meat, Fish and Poultry Products Technology**

This course provides an understanding of the chemistry, technology and microbiology of muscle-based foods. Emphasis is put on; muscle structure and function; pre-and post-slaughter factors and processes which influence the quality of meat; slaughter technology; meat color, flavor, tenderness and water-holding capacity; functional properties of ingredients in processed meat products; meat processing operations and equipment; factors affecting the quality of meat products; packaging of meat and meat products; meat by-products; micro flora and spoilage of meat and meat products.

### **BFNT 2212 Food Processing and Preservation Techniques**

The course provides an over view of food processing & fruits and vegetable technology, and associated food processing unit operations; principles of food preservation methods such as temperature and water activity control, and effects of preservation methods on food quality of foods detailed; pasteurization and the vegetables canning industry; refrigeration and freezing - refrigerants & compressors; effects of chilling & freezing on

fruits and vegetables; drying and evaporation; acidification and fermentation; chemical preservation; food additives; irradiation; aseptic processing. The course also discusses the biological, chemical and physical properties of fruits and vegetables and their contribution to human nutrition and diet; and the application of food processing and preservation principles and technologies in the processing, preservation, extension of shelf life and value addition of fruit and vegetable products in terms of safety, nutritional and dietary quality.

### **BFNT 2213/DFST 2214 Food Quality Management and Legislation**

This course has been designed to equip students with concepts of quality in the food industry; quality assurance; quality control; quality characteristics of food; quality changes in food affecting quality; specifications & quality defects; quality management concepts & systems; quality costs and statistical quality control; food legislation, quality benchmarking; interactions of man, materials and systems in quality assurance.

### **BFNT 2214/DFST 2215 Food Product Development and Innovation**

The course provides an understanding of technological and scientific aspects of new product development (NPD) in the food sector, as well as the factors influencing food choice, the associated implications of food choice to the new food product development process, and methods to develop more market-oriented food products. Topics of emphasis in this course include: Discussion of the scientific and technological principles underpinning NPD, including stages of the NPD process and activities, NPD success factors, new product design, food innovation case studies, market-oriented NPD methodologies, organization for successful NPD, integration of market and sensory analysis, marketing of novel foods, food safety and shelf-life aspects of NPD and use of novel food ingredients and novel processing technologies. Different tools and methodologies used to evaluate consumer attitudes, preferences and market acceptance factors and the implications for NPD strategies. Identification of Factors influencing NPD success. Innovation case studies to emphasize best practices for integration of technological and marketing approaches to NPD. Case study topics will include; food choice models and new product trends.

### **BFNT 2215/DFST 2217 Cereal Science and Technology**

The course provides an understanding of chemistry, microbiology and technology of cereals, cereal products as well as a wide range of beverages based on cereals. The main focus is put on Cereal and cereal products: structure, starch proteins, minor constituents, storage, and milling, yeast leavened products, dough additives, biscuits, breakfast cereals, pasta, frozen doughs and bakery products. Beverages: Production of fermented and other beverages such as beer and distilled beverages based on cereals. Raw materials, equipment quality and legislation of these products/ processes will be discussed.

### **BFNT 2216 Sensory Analysis and Evaluation**

This course is designed to provide an overview of the senses and the sensory methods employed by research and industry to measure sensory properties and the consumers' liking response. This is important because sensory quality of food is the key attribute in food acceptability. Food quality can be measured using sensory methods as well as instrumental measures of attributes like taste, aroma and texture.

### **BFNT 2217 Food Safety and Hygiene**

This course examines the major sources of food contaminants, the ways of preventing contamination and the likely consequences as regards health of consumers if contaminated food is consumed. Emphasis is placed on both microbial and chemical contaminants and how these affect the consumer. An introduction to epidemiology with



selected methods of determining the levels of contamination are discussed. The main aim of the module is to explain the importance of safe and quality food and strategies to ensure safety and quality of food.

### **BFNT 3118 Feed Manufacturing Technology**

The feed industry employs people with a variety of skills, including process engineers, economists, marketing experts, animal and poultry scientists, regulatory experts, quality control technicians, transportation and distribution specialists, personnel management specialists, as well as construction and maintenance trades. The course is designed to introduce students to the feed manufacturing industry. The course is applicable to feed production in both small- and large-scale operations. It is a technical course which will help students to solve typical problems in the feed industry. The art and science of commercial feed manufacturing is also discussed in this course.

### **BFNT 3119 Endocrinology and Metabolism**

The course examines the structure, function and control of the endocrine glands, mainly those which regulate metabolism. The interactions between components of the endocrine system and key metabolites are also covered, including the chemical nature and mechanism of action of specific hormones and hormone types.

### **BFNT 3120 General Patient Care Skills for Nutritionists**

The course introduces students to the hospital environment and the basic safety concepts of patient care skills. It includes observation and communication skills, body mechanics, fire safety, and medical and surgical asepsis. The goal of this course is to provide the student with knowledge and skills required to work safely and effectively in patient-care situations and acquire skills in caring for patients with nutritional problems.

### **BFNT 3121 Sports Nutrition**

Sports nutrition is a scientific course that provides the student with an understanding of the principles of sports nutrition and its practical application to both elite and recreational athletes. The student will be required to examine the role of nutrition for the sports participant in terms of maintaining overall health, while meeting the specific demands of training and competition. The course covers these key elements; Introduction to sports nutrition, influence of training and competition on the unique energy, protein, fat, carbohydrate and fluid requirements of athletes; manipulating and assessing body composition of athletes without adversely impacting on health and/ or performance; sports supplement and classification of supplements used and associated issues relating to the integrity of sport; sports nutrition guidance amongst special sports and athletic populations; contemporary sports nutrition issues.

### **BFNT 3122 Nutrition Management in Emergencies**

The course is designed to equip students with expertise needed to lead or support nutrition responses. It is intended to build the skills for involvement in emergency nutrition in preparation to become health and food security programme managers. Topics to be discussed include; Surveys and surveillance; Therapeutic and supplementary feeding; Infant and young child feeding in emergencies; General food distributions; Micronutrient assessment and intervention; Monitoring and evaluation; Humanitarian standards and coordination; Emergency preparedness.

### **BFNT 3223 Nutrition Dietetics and Disease Prevention**

This course is developed to enable an in-depth understanding of the causes, dietetic management of diseases/ therapeutic role, prevention and dietetic care process of major lifestyle diseases such as diabetes, coronary heart diseases, HIV/AIDS and cancer. It also



provides an overview and an evaluation of dietary supplements, herbal products and nutraceuticals, their active ingredients, claimed health effects and mechanism of action of the different functional foods and nutraceuticals

### **BFNT 3224 Nutrition and Human Life Cycle**

This course is designed to explore the basic concepts of human nutrition in relation to various stages of the lifespan (inclusive of infants to late adulthood). The course content focuses on the early stages of the life cycle: gestation, lactation, infancy, and preschool, school age, adolescence as well as late adulthood. Early stage lifecycle topics include fetal programming hypothesis, growth and nutritional requirements, breast and formula feeding of infants, infant weaning, and eating behaviors that lead to normal growth, growth faltering, and pediatric obesity. It also explores several nutrition related issues such as obesity, cardiovascular disease and eating disorders in adulthood. The course provides information regarding the development of standard dietary practices and introduces dietary guidelines and internationally acceptable nutrient reference values. The course finally provides students with current and up to date information for making informed decisions with regard to nutritionally critical moments of the human life span.

### **BFNT 3225 Occupational Health and Safety**

The situation of occupational health and safety is not good worldwide. Many workers continue to contract occupational disease, involve in accidents and get exposed to infections. All these affect occupational health and safety. This course is designed for undergraduate level training and is a compulsory course addressing the current concerns of occupational health and safety. The course provides knowledge equips the learners with knowledge and a wide range of skills of enhancing occupational health and safety in global and Ugandan context. This course introduces the student to the study of workplace occupational health and safety. The course allows students to learn safe work practices in offices, industry and construction as well as how to identify and prevent or correct problems associated with occupational safety and health in these locations as well as in the home. The course is designed to assist the student with the implementation of safe healthy practices at work and at home.

### **BFNT 3226 Production Economics**

This course covers the basic theory of how, what and when firms should produce to maximize profits. It extends beyond general treatment and focuses on the application of theory to specific problems that the firm faces when making production decisions to maximize profits. Topics include; how to optimize production under restrictions; treatment of fixed inputs and the process of input fixation; optimization of production over time; programming as tools for optimization in practice. This course also includes a more comprehensive introduction to the theory of decision making under risk and uncertainty as well as how to use linear programming to generate the supply function of the firm and solve operational problems such as scheduling, forecasting, inventory control and project management.

### **BFNT 3227 Medical Nutrition Therapy**

Medical Nutrition Therapy explores the role played by therapeutic diets in the treatment of chronic disease and other nutritional disorders. The student is introduced to the principles of the nutrition care process and they will gain knowledge and experience in nutrition assessment techniques and intervention strategies as applied to chronic disease and other nutritional disorders. This course will provide students with current knowledge and application in dietary prevention, treatment, and long-term management of patients with trauma, burns, HIV, cancer, liver, lower gastrointestinal diseases, celiac disease, and renal diseases across the lifespan. Topics include nutrition counselling and

communication skills, professional ethics, medical terminology, clinical laboratory values, dietary menu planning and analysis in specific situations, evaluating nutritional status, case studies for these diseases, and will examine enteral and parental nutrition support for critically ill patients. Students will also develop a basic knowledge related to the principles of fluid and electrolytes balance as well as acid-base balance as they relate to the nutritional care of patients/clients. The course also focuses on understanding the diseases that are modifiable by medical nutrition therapy (MNT). The role of genetics in nutrition; pathophysiology, dietary treatments, and evidence supporting MNT will be discussed.

#### **BFNT 4128 Principles of Nutritional Genomics**

The course is designed to introduce students to basic concepts in nutritional genomics so as to develop a better understanding of genomics and gene regulation with respect to diet. It is also aimed at creating an appreciation for the role and importance of nutrition in prevention of polygenic diseases. The students are expected to gain some practical skills in the application of nutrigenomics in the laboratory and clinical settings with respect to areas such as bioinformatics, single-nucleotide polymorphisms, microarrays, proteomics, metabolomics, and system biology. The course will also enable students to design nutritional strategies for prevention of chronic diseases such as cardiovascular disease, obesity, type-2 diabetes and cancer. The course will also require students to search literature and learn how to use genomic databases, read relevant research papers, and discuss concepts and ideas with other students in the class on different topics. In addition, students will also work in groups and/or individually on several class assignments.

#### **BFNT 4129 Food Commodities, Biopolymer Ingredients and Mixtures**

This course introduces the properties of food materials (raw and processed), with emphasis on the chemical and physical nature of carbohydrates, proteins and lipids. It also covers the physico-chemical properties of food proteins and biopolymer mixtures of proteins and non-protein biopolymers and their exploitation in food processing. Alterations in food processing, and quality of food products in terms of color, flavor and texture. The chemical composition and physical structure of major food commodities; Food quality changes on storage, transport and primary processing; and exploration of global trade mechanisms, and the factors affecting the markets of food commodities. Other topics to cover are; proteins as functional ingredients such as thickeners and structuring agents, mechanisms of gelation of food proteins and microstructural and rheological properties of food.

#### **BFNT 4130 Waste Management Technology**

This course looks at current policies and practices regarding waste management and re-evaluates the need for creating better waste management systems in society. Increasing resource scarcity and environmental pressures are the key drivers for moving towards better waste management systems and technologies that will help society limit its impacts on earth. This class will provide an overview of the current and emerging waste technologies. The course gives a broad overview of the management, treatment, technologies, and prevention methods related to solid waste in Uganda, with a particular emphasis on emerging technologies and management systems in country.

#### **BFNT 4131 Nutrition Assessment and Surveillance**

This course provides an overview of methodologies and tools for conducting anthropometrical, biochemical, clinical, and dietary assessments. Topics include reference standards, their uses and limitations; practical applications and interpretation of assessment data at individual level and in community settings; definitions, concepts

and principles of anthropometric measurements in child and adult populations including stature, body circumferences, skin folds, and body mass index as well as assessment of specific micronutrient deficiencies, interpretation of results, and limitations.

#### **BFNT 4132 Agricultural and Food Marketing**

The course provides an introduction to marketing and its importance in food production. It explores strategies for identifying market segments, targeting and positioning products for agricultural and food markets. The characteristics of agricultural markets, producer and retailer bargaining power, vertical and horizontal integration, group marketing and co-operation are also examined in this course

#### **BFNT 4133 Nutritional Sufficiency, Therapy and Kinetics**

This course unit builds on basic concepts in human nutrition and facilitates the study of nutrition needs during the life-cycle and for specific lifestyle and nutrition related diseases among individuals and in local communities. It also examines selected processes by which nutrients act as drugs in treatment of nutrient related diseases. This study will incorporate how to assess individuals, communities and diets and to manipulate diets to ensure nutritional sufficiency and to manage nutritional therapy of lifestyle related diseases in local communities. This assessment is also applied to the dietary requirements of specific community groups and covers topics in sports nutrition, food supply and food product development.

#### **BFNT 4234 Macromolecules and Rheology**

The course is designed to study the role of macromolecules in creation and control of the physical structure and perceived texture of high-moisture foods. The course puts emphasis on structure and conformation of food polysaccharides; hydrolysis products; saccharide analysis; use of biopolymers as thickeners, stabilizers and gelling agents. The course also discusses application of physical techniques to food biopolymers as well as rheological characterization of texture.

#### **BFNT 4235 Nutrition Education, Counselling and Community Health**

The course covers theoretical perspectives that form the basis of nutrition education, counseling and their application to the development of educational strategies and programs to improve the public's eating habits. It also examines the developments in nutrition education research, the role of the political and legislative process in health promotion, and the effectiveness of nutrition education interventions. The current food and nutrition issues are surveyed, including an exploration of factors that influence public health nutrition. Topics include; the contribution food systems and food security to consumer wellbeing; the changing global marketplace and the impact of globalization on food security and ecological sustainability; and the complex inter-connections between government policy, globalization, consumerism and human health. Other areas covered include; core ingredients of nutrition education such as crisis management and risk communication skills; increasing role of food risk perception and food risk communication and analysis; food scares, and community health are also discussed, and strategies for promoting community health. Finally, students will be introduced to social research methods and planning for a social research studies to address nutrition related issues in communities.

#### **BFNT 4236 Food and Nutrition Security**

The course is aimed at providing the course participants with knowledge, skills and motivation to identify, plan and implement effective action to address food and nutrition security at various levels, ranging from (national) policy level to regional, community, household and even individual level programs. The course covers topics such as; key concepts and current issues in nutrition; nutrition communication and promotion; a

new approach to nutrition education; food and nutrition security in the context of HIV/AIDS; monitoring and evaluation of impact on food and nutrition security.

#### **BFNT 4237 Food Fermentation Technology**

This course covers basic principles of fermentation and technologies of fermented food products. It employs concepts in microbiology and biochemistry to discuss processing technologies for fermented foods. It provides skills and techniques in making fermented products and their preservation.

#### **BFNT 4238 Principles of Geriatric Nutrition**

The course is designed to introduce students to basic concepts in nutritional genomics so as to develop a better understanding of genomics and gene regulation with respect to diet. It is also aimed at creating an appreciation for the role and importance of nutrition in prevention of polygenic diseases. The students are expected to gain some practical skills in the application of nutrigenomics in the laboratory and clinical settings with respect to areas such as bioinformatics, single-nucleotide polymorphisms, microarrays, proteomics, metabolomics, and system biology. The course will also enable students to design nutritional strategies for prevention of chronic diseases such as cardiovascular disease, obesity, type-2 diabetes and cancer. The course will also require students to search literature and learn how to use genomic databases, read relevant research papers, and discuss concepts and ideas with other students in the class on different topics. In addition, students will also work in groups and/or individually on several class assignments.

#### **BFNT 4239 Food Enzymology**

The course is designed to cover basic principles of fermentation, including physico-chemical properties and application of enzymes used in food and ingredient manufacture, study of starter cultures, their physiology and genetics in the preparation and application to different food products and ingredients, study of chemical, biochemical and microbial bio-transformations in selected indigenous foods and food ingredients.

#### **DFST 2216 Food Biotechnology**

The course is designed to describe the application of biotechnology techniques in food production and processing. It also examines modern trends in drink and beverage industry - wine, beer, alcoholic and non-alcoholic drinks; fermented foods, solid state fermentation and nutraceuticals; biotechnological aspects of food processing vegetable and animal origin; oriental and exotic foods.

### **COURSE DESCRIPTIONS FOR DIPLOMA IN FOOD SCIENCE AND PROCESSING TECHNOLOGY**

#### **DFST 1101 Intro. to Food Science & Processing Technology and Human Nutrition**

The course is designed to provide an introduction to key aspects of nutrition, food science and technology. It also provides an overview of the major animal and plant-based foods, and how they need to be processed or treated before consumption. In this course, emphasis is put on the basic chemistry, microbiology and processing of foods and also, problems of spoilage by microorganisms and their usefulness in food production. The course further focuses on dietary energy and nutritional energetics; regulation of appetite and energy expenditure; dietary assessment, dietary labels, and food analyses. Apart from exploring fundamental concepts related to basic nutrition the course deals with determining nutritional challenges of the future.

#### **DFST 1102 Introduction to Food Engineering**

This course is designed to provide students with introductory knowledge, skills and competencies needed to understand the engineering concepts involved in food various

food processing situations. The course provides basic understanding of unit operations; process flow and design; materials balances; energy balance; laws of thermodynamics, flow of fluids, transport processes: momentum transfer, heat transfer, mass transfer; process economics; chemical reactors; batch or continuous operation.

#### **DFST 1203 Fundamentals of Food Safety and Hygiene**

This course explores how to keep food safe for human or animal consumption through executing quality safety practices such as personal hygiene, good manufacturing habits, and proper sanitation. In this course, students explore food safety principles through the lens of regulatory bodies. An introduction to epidemiology with selected methods of determining the levels of contamination is discussed.

#### **DFST 1204 Food Processing and Preservation Techniques**

The course introduces food processing and preservation methods and principles, food material characteristics and requirements, and shelf-life control and stabilization. Topics discussed include traditional food preservation (salting, smoking, fermentation); food components and ingredients (role of composition and ingredients, mechanical separation of components, homogenization and emulsification, membrane processes, ion exchange, distillation, stability control); freezing of foods and frozen foods stability; conventional, dielectric and microwave heating; thermal preservation (pasteurization, UHT processing, sterilization); thermal kinetics (chemical, microbial, time-temperature indicators); food concentration and dehydration; food extrusion; irradiation of foods; minimal processing principles and novel food processing.

#### **DFST 1205 Sensory Analysis and Evaluation**

This course is designed to provide an overview of the application of experimental design and statistical analysis to the use of human senses (sight, smell, taste, touch and hearing) for the purposes of evaluating consumer products. This is important because sensory quality of food is the key attribute in food acceptability. Food quality can be measured using sensory methods as well as instrumental measures of attributes like taste, aroma and texture.

#### **DFST 1206 Fundamentals of Food Packaging**

This is an introductory course designed to provide fundamental principles of food packaging. Topics covered in this course include: properties of packages, packaging development, manufacture of packaging materials (glass, metals, paperboard, corrugated paperboard, plastics and laminates) in the food industry, closure systems and labelling, packaging designs, packaging requirements of different foods (soft beverages and alcoholic drinks, meat, fish and poultry, milk and milk products, fruits and vegetables, cereal and cereal products), bio packaging, standards and legal requirements for food packaging materials and food packaging waste and legislation of packaging materials.

#### **DFST 1207 Food Microbiology & Analysis**

This is a practical based course that introduces general principles of food microbiology and the microbial ecology of foods (effects of water activity, pH, temperature, etc.). The course also introduces important foodborne pathogens, food preservation, food spoilage, food fermentation.

#### **DFST 1208 Technology of Dairy Products**

This is an introductory course on milk and processed milk products. The main focus of the course is put on: primary milk production, overview of milk and dairy products, technology and quality of liquid milks, cream, milk powders, casein and caseinates, whey processing and ice cream. The course also introduces functional properties and applications of milk proteins.

## School of Health Sciences List of Lecturers

**Ag. Dean: Amoah K. John;** PhD (Animal Nutr.) MSc (Animal Sci.) (CLSU, Philippines), BSc (Agric.) (UEAB, Kenya),

### Department of Nursing and Midwifery

**Head; Rosemarie F. Cacho,** MAN, RN, BSN, (Liceo De Cagayan, Philippines).

### Full-Time Faculty

**Mahrc F. Escoza,** MN, RN, BSN, (Philippines).

**Vevian G. Fortaleza,** MN (Sti- West Negros, Philippines)

### Contract/Adjuncts

**Kabalemba Flavia,** MNS (Critical Care), BNS (Mbarara).

**Kirumira Jimmy,** MN (Critical Care), BNS (Mbarara).

**Alum Alice Collete,** MPH (Bugema).

**Kyarimpa Monica,** MPH (Bugema).

**Turyatamba Ismail,** MPH (Bugema), BMLS (Makerere).

### Certificate & Diploma Tutors

**Ag. Head Tutor; Katusabe Agnes,** RN, BMed.

### Full-time tutors

**Ssemanda Bosco,** MNS (Critical Care) (in progress – Mbarara), BNS.

### Contract/Adjuncts Tutors

**Itomet Francis,** RN, ADHT, BNS.

**Babirye Damalie,** PGDME, BNS.

**Kararuhayo Michael,** RN, BMed.

**Adong M. Grace,** RN, BMed.

**Otima H. Vera,** PGDME, BNS.

**Ddangi Ronald,** RN, BMed.

**Awio Alex,** Dip. Nursing.

### Department of Food Science and Technology

**Ag. Head/Coordinator; Apolot M. Gorret,** MSc (Applied Hum. Nutr.) (Makerere), BSc (Food Sci. & Nutr.) (IUIU).

### Contract/Adjuncts

**Tom Bbosa,** MSc (Applied Hum. Nutr.) (Makerere), BSc (Food Sci. & Technology).

**Stellah Byakika,** MSc (Food Sci. & Technol.) (Makerere), BSc (Food Sci. & Technology).

**Vincent Sekajja,** MSc (Public Health Nur.) (Makerere), BSc (Food Sci. & Technology).

**Joshua Semakula,** MSc (Applied Hum. Nutr.) (Makerere), BSc (Ed).

**Gerald Tumwine,** MSc (Food Sci. & Technol.) (Makerere), BSc (Food Sci. & Technology).

**George Gafabusa,** MSc (Food Sci. & Technol.) (Makerere), BSc (Food Sci & Technology).

# **SCHOOL OF NATURAL SCIENCES (SONS)**



## SCHOOL OF NATURAL SCIENCES

**Associate Dean:** Mutekanga David, Post-Doctoral Fellowship (UNU), PhD (Environ. Mgt) (Makerere), Msc(Zoology) (Makerere), Bsc-Biological Science (Makerere).

### Philosophy

The School of Natural Sciences is based on a strong belief that science is the study of God's handiwork to sustain mankind and his bio-physical systems through technology and sustainable innovations.

### Mission

To train holistic and skilled professionals in science and technology.

### Vision

To be a center of excellence in scientific research, training and innovations for development.

### Programs Offered

**The School of Natural Sciences offers the following Programs;**

1. Bachelor of Science in Agriculture with Crop Science & Protection
2. Bachelor of Science in Agribusiness Innovation and Management (3yrs)
3. Bachelor of Science in Environmental Science (Hons)
4. Bachelor of Science in Biochemistry (BIOC)
5. Bachelor of Science in Statistics (BSTA)
6. Diploma in Science Laboratory Technology (DSLTL)
7. General Science Courses (Biology; Chemistry; Physics; Mathematics, Agriculture and ICT).

### General Entrance Requirements in the School of Natural Sciences

For all Degree courses, one must satisfy at least one of the following minimum university entry requirements.

- Have completed A-level and have two principle passes in science subjects, mainly: Biology, Chemistry, Geography, Food and Nutrition, Agriculture, Physics and or Mathematics, Economics and also passed at their sitting of Olevel
- Must possess a second class Diploma in relevant areas of Science (for a specific program) and from recognized institutions. The relevant areas of science include; Agriculture, Education Biology/Chemistry, Food Processing, Nutrition, Business computing, Accounting; Engineering, Architecture, Science education (mathematics/Economics/Physics) or related studies, from recognized/accredited Institutes.
- Must have passed the Mature Age Entry Examinations for a specific Degree recognized by NCHE in Uganda or its equivalent.
- Other international students who do not undertake A-level should have passed mature entry exams OR
- Have an equivalent of A-level of Uganda and have a background in Science subjects mainly Biology, Chemistry, Agriculture, Physics, Mathematics, or Geography, Commerce or Economics.



## DEPARTMENT OF AGRICULTURAL SCIENCES

### BACHELOR OF SCIENCE IN AGRICULTURE

Ag. Head of Department/Coordinator; **Nambalirwa Allen**, MSc (Agric. in progress), BSc (Agric. & Rural Innov.) (Makerere).

#### Introduction

Agriculture contributes over 25% directly and 29% indirectly to Uganda's GDP and provides income to over 75% of Ugandans. Modern agriculture is complex and only individuals who have gone through an extended period of preparation in agriculture can effectively participate and make a significant contribution in this sector. The logical basis of a specialized degree programme in agriculture is the need to produce a vital mass of specialized professional in agriculture who can be producers and also provide the required skills for research, innovation and management of crises in agriculture. This specialized Bachelor of Science degree programme will prepare and produce the essential manpower for sustainable agriculture, research and innovation of agribusiness for employment creation. The graduates will also be sufficiently qualified to assume responsibilities in government and the private sector and also set up their own agribusinesses to reduce on the increasing rate of unemployment in Uganda. Therefore, this proposed programme is designed to contribute towards addressing specific setbacks to sustainable agricultural productivity, and national development through training and producing graduates with specialized skills in Biotechnology and Plant Breeding; Animal Production and Nutrition; Crop Protection and Management; Agronomy and Soil Fertility and Agribusiness Innovation and Management

#### Rationale

Agriculture is the mainstay of Uganda's economy through provision of food, shelter, employment and cash income. Moreover, about 80% of Uganda's population lives in rural areas. It is for these reasons that the Ugandan government has deliberately taken a decisive measure to accelerate rural development through enhancement of agricultural production. Some of these measures include; National Agricultural Advisory Services (NAADS), Operation Wealth Creation, and the Plan for Modernization of Agriculture. The Bachelor of Science in Agriculture programme at Bugema University is intended to contribute towards achievement of some of the national development goals by providing highly trained manpower equipped with a broad range of both conceptual and practical skills and specialized knowledge for promoting crop and animal production, biotechnology, agronomy and stimulating agribusiness.

#### Programme Objectives

The programme has the following objectives:

- To produce highly qualified graduates needed in learning and research institutions and industries
- To produce graduates who capable of establishing their own agribusiness enterprises
- To promote professional development of graduates in agriculture by providing the students with an understanding and hands-on experience of the different disciplines of plant breeding, biotechnology, crop science and management, agronomy, animal nutrition and soil fertility.
- To develop Agribusiness innovation skills and other social skills among students

### **Program Learning Outcomes**

On successful completion of this programme the graduate will be able to:

- Demonstrate knowledge and understanding of specific theories, concepts and principles in agriculture fields;
- Demonstrate the ability to apply and integrate conceptual and theoretical information relating to the skills in biotechnology, agribusiness, agronomy, crop science and animal science.
- Demonstrate methods for generating, processing, interpreting and presenting information in specialized areas of agriculture
- Demonstrate skills required to identify, define and resolve routine problems in the agricultural fields
- Recognise best-practice across a range of legal and ethical areas;
- Plan and organize work and interact effectively as part of a team;
- Demonstrate hands-on experience competency in practical skills in different
- Disciplines of plant breeding, biotechnology, crop protection, agronomy, animal
- Nutrition and soil fertility
- Develop and nurture agribusiness innovations for self-employment
- Develop and formalise original ideas using a range of tools;

### **General Regulations**

Bugema University general entrance requirements and regulations pertaining to application, registration, examinations and awards shall apply.

### **Entry requirements in the program**

Admission to the Programme is done in accordance with the Bugema University entry requirements for Bachelors' degrees. A candidate is eligible for admission to the Programme on meeting at least one of the following requirements:

Have completed A-level and have a minimum of two principle passes which should be in Biology and Chemistry or Biology/Agriculture & Food&Nutrition, and also passed at the same sitting of O-level.

*For Agribusiness Innovation and Management, A candidate may also qualify if he /she has Two Principle passes in any TWO of the following subjects: Biology; Agriculture; Economics/ Entrepreneurship; Geography; Food and Nutrition; Mathematics; and also passed at their sitting of O-Level*

Must possess a second class Diploma in relevant areas of Science and from recognized institutions. The relevant areas of science include; Agriculture, Education Biology/ Chemistry, Food Processing, Nutrition, or related studies, from recognized/accredited Institutes.

Must have passed the Mature Age Entry Examinations for the Bachelor of Science in Agriculture from a recognized Institution or University by NCHE in Uganda or its equivalent.

Other international students who do not undertake A-level should have passed mature entry exams or have an equivalent of A-level of Uganda and have a background in Science subjects mainly Biology, Chemistry, Agriculture, Physics, Mathematics, or Geography, Commerce or Economics.

### **Target Group**

The Programme targets the following categories of students:

- Holders of Uganda Certificate of Education (UCE) or its equivalent and Uganda Advanced Certificate of Education (UACE) or its equivalent.
- Diploma holders in relevant areas of Science fields from recognized institutions.
- Persons who shall have passed Mature Age Entrance Examinations.

### **Duration of the programme**

The duration of the Programme is Eight (8) semesters for four years. Each academic year consists of two (2) semesters. The length of a semester is seventeen (17) weeks of which fifteen (15) weeks are for teaching and two (2) weeks for examinations.

**Semester load for Undergraduate Academic Programmes.** The normal semester load for undergraduate academic programmes shall range from eighteen (18) credit units to twenty-four (24) credit units.

**Internship:** All students pursuing Bachelor of Science in Agriculture, in all its specialties will be required to go for an internship period for two months, in the summer period of second year. The purpose of this internship is to expose students to the practical knowledge in the fields that enhances their research skills and expertise in the major fields of Agriculture.

### **Grading system for the programme**

The grading system will follow the current BU bulletin of 2019-2024

### **Progression, deferring grade, retaking a course,**

All these shall follow the current Bugema University Bulletins 2019-2024

### **Research Presentation:**

Each student shall be required to conduct a research work and write a thesis under the guidance of a supervisor. This is finally presented orally before faculty members and other academic invitees as appointed by the Department.

## CURRICULUM STRUCTURE

### BACHELOR OF SCIENCE IN AGRICULTURE

*(Crop Science Option)*

#### Degree Requirement Summary

Course Category	Credits
Major concentration in Agriculture	78
Cognates	56
General courses	19
Research Project	06
Industrial Training/Internship	06
Elective courses	6
<b>Total</b>	<b>171</b>

#### Major Concentration in Agriculture

Codes	Course Title	CU
BSAG 1104	Special project (crop)	1
BSAG 1202	Agricultural botany and plant physiology	3
BSAG 2103	Annual crops agronomy	3
BSAG 2105	Fundamentals of crop protection	3
BSAG 2107	Cell and Molecular biology	3
BSAG 2201	Perennial crops agronomy	3
BCRS 3102	Seed Science and Technology	3
BCRS 3104	Organic Agriculture	3
BCRS 3202	Post-harvest technologies	3
BCRS 3203	Principles of crop production	3
BCRS 4102	Weed Biology and Ecology	3
BCRS 4103	Principles of Horticulture	3
BCRS 4203	General Mycology	3
BCRS 4105	Plant Nematodes and Virology	3
BCRS 4101	Plant Pathology	3
BCRS 4204	Fertilizer technology	3
BCRS 3101	Soil fertility and plant nutrition	3
BCRS 4104	Integrated pest management	3
BSAG 2205	Agricultural entomology	3
BCRS 4202	Plant Disease Diagnosis	3
BCRS 3103	Soil conservation and Management	3
BSAG 1201	Principles of soil science	3
BSAG 1102	Principles of genetics	2
BSAG 2104	Agricultural microbiology	3
BANS 3205	Pasture and Forage Crop and Agro-forestry	3
BSAG 2101	Principles and methods of plant breeding	3
*BPBR 4201	Innovations Technologies in Agriculture	3
<b>Total</b>		<b>78</b>

#### Cognate Courses

Codes	Course Title	CU
BCRS 4201	Gender and Agriculture	3
BCRS 3105	Rural Sociology & Agricultural Development-	3
BCRS 3204	Farm power and machinery	3
BCRS 3201	Farm structures and buildings	3
BSAG 2203	Farm management and Agricultural projects	3

BSAG	1101	Principles of Livestock production.	3
BMAT	1103	Mathematics for Agriculturalist	2
BSAG	1203	Principles of biochemistry	3
BSAG	1204	Introduction to agribusiness management	3
BSAG	2102	Agricultural zoology	3
BSAG	2202	Livestock breeding, behavior and welfare	3
BSAG	2203	Farm mgt & Agricultural projects	3
BSAG	2204	Agricultural climatology & biogeography	3
BSBI	2211	Biostatistics	3
BSAG	3101	Undergraduate Seminar	3
BCON	3301	Sustainable land utilization & planning	3
BECO	3217	Production and operations management	3
* BBIM	2212	Agribusiness Small Enterprise Mgt	3
BBIM	1203	Introduction to agricultural Extension	3
<b>Total</b>			<b>56</b>

### General Courses

Codes	Course Title	CU
GECR	1101 Christian Belief	3
GECH	1101 Health Principles	3
GECC	1101 Fundamentals of Computers & Office Application	4
GECH	1101 Introduction to Writing Skills	3
GECS	1201 Issues in science and religion	3

### Choose one

Codes	Course Title	CU
GESA	1201 Philosophy of Christian education	3
GECA	1202 Principles of sociology	3
<b>Total</b>		<b>19</b>

### Research (3 Credits)

Codes	Course Title	CU
BREP	4102 Research project	3
BREM	2201 Research Methods	3
<b>Total</b>		<b>6</b>

### Industrial Training (6 Credits)

Codes	Course Title	CU
BINT	2301 Industrial training I	3
BINT	3302 Industrial training II	3
<b>Total</b>		<b>6</b>

### Elective Course (Choose One (2 Credits))

Codes	Course Title	CU
GECV	1201 Motor vehicle driving	2
GECV	1203 Catering	2
GECV	1204 Music Appreciation	2
<b>Total credits</b>		<b>6</b>

The recommended Schedule for the four year BSc. (Hons) in Agriculture [Crop Science option] is presented as follows;

First Year	Semester I					
Code	Name	LH	TH	PH	CH	CU
GECR	1101 Christian Beliefs	30	30	00	45	3

GECH	1101	Health principles	30	30	00	45	3
GECC	1101	Funds of computer & its application	45	00	45	60	4
GECS	1201	Issues in science and religion	30	30	00	45	3
GECH	1101	Introduction to writing skills	30	30	00	45	3
BSAG	1101	Principles of Livestock production .	30	30	00	45	3
BSAG	1102	Principles of genetics	15	00	45	30	2
BMAT	1103	Mathematics for Agriculturalist	15	00	30	30	2
<b>Total credits</b>							<b>22</b>

<b>First Year</b>		<b>Semester 2</b>					
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
		<b>(3 credits)</b>					
GECS	1201	Issues in science and religion	30	30	00	45	3
		<b>Select one ( 3 credits )</b>					
GECA	1201	Philosophy of Christian education	30	30	00	45	3
GECA	1202	Principles of sociology	30	30	00	45	3
		<b>Select one ( 3 credits )</b>					
GECV	1201	Motor vehicle driving	15	0	45	30	2
GECV	1202	Catering	15	0	45	30	2
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSAG	1201	Principles of soil science	15	00	60	45	3
BSAG	1202	Agricultural botany & plant physiology	30	30	00	45	3
BSAG	1203	Principles of biochemistry	30	30	00	45	3
BSAG	1204	Introduction to agribusiness Mgt	30	30	00	45	3
<b>Total Credits</b>							<b>21</b>

<b>Second Year</b>		<b>Semester I</b>					
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSAG	2101	Principles & methods of plant breeding	30	30	00	45	3
BSAG	2102	Agricultural zoology	30	30	00	45	3
BSAG	2103	Annual crops agronomy	30	30	00	45	3
BSAG	2104	Agricultural microbiology	30	30	00	45	3
BSAG	2105	Fundamentals of crop protection	30	30	00	45	3
BSAG	2106	Special project in crop science	30	15	00	00	1
BSAG	2107	Cell and Molecular biology	30	30	00	45	3
<b>Total Credits</b>							<b>22</b>

<b>Second Year</b>		<b>Semester 2</b>					
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSAG	2201	Perennial crops agronomy	30	30	00	45	3
BSAG	2202	Livestock breeding, behavior & welfare	30	30	00	45	3
BSAG	2203	Farm mgt & Agricultural projects	30	30	00	45	3
BSAG	2204	Agricultural climatology & biogeography	30	30	00	45	3
BSAG	2205	Agricultural entomology	30	30	00	45	3
*BREM	2201	Research Methods	30	30	00	45	3
BSBI	2211	Biostatistics	30	30	00	45	3
<b>Total Credits</b>							<b>21</b>

**Summer Period**

Code	Name	LH	TH	PH	CH	CU
BINT 2301	Industrial training I	00	00	90	45	3

**Third Year**

**Semester 1**

Code	Name	LH	TH	PH	CH	CU
BCRS 3101	Soil fertility and plant nutrition	30	30	00	45	3
BCRS 3102	Seed Science and Technology	30	30	00	45	3
BCRS 3103	Soil conservation F and Management	30	30	00	45	3
BCRS 3104	Organic Agriculture	30	30	00	45	3
BCRS 3105	Rural Sociology & Agricultural Dev't	30	30	00	45	3
BSAG 3101	Undergraduate Seminar	30	30	00	45	3
BCON 3301	Sustainable land utilization & planning	30	30	00	45	3

**Total Credits**

**21**

**Third Year:**

**Semester 2**

Code	Name	LH	TH	PH	CH	CU
BCRS 3201	Farm power and machinery	30	30	00	45	3
BCRS 3202	Farm structures and buildings	30	30	00	45	3
BCRS 3203	Post harvest technologies	30	30	00	45	3
BCRS 3204	Principles of crop production	30	30	00	45	3
BECO 3217	Production economics	30	30	00	45	3
BANS 3205	Pasture, Forage Crop & agroforestry	30	30	00	45	3

**Total Credits**

**18**

**Summer period**

Code	Name	LH	TH	PH	CH	CU
BINT 3302	Industrial training II	00	00	90	45	3

**Fourth Year:**

**Semester I**

Code	Name	LH	TH	PH	CH	CU
BCRS 4101	Plant Nematodes and Virology	30	30	00	45	3
BCRS 4102	Plant Pathology	30	30	00	45	3
BCRS 4103	Weed Biology and Ecology	30	30	00	45	3
BCRS 4104	Principles of Horticulture	30	30	00	45	3
BCRS 4105	Integrated pest management	30	30	00	45	3
BREP 4102	Research project	0	30	90	45	3

**Total Credits**

**21**

**Fourth Year:**

**Semester 2**

Code	Name	LH	TH	PH	CH	CU
BCRS 4202	Gender and Agriculture	30	30	00	45	3
BCRS 4203	Plant Disease Diagnosis	30	30	00	45	3
BCRS 4204	General Mycology	30	30	00	45	3
BCRS 4205	Fertilizer technology	30	30	00	45	3
*BPBR 4201	Innovations Technologies in Agriculture	30	30	00	45	3
* BBIM 2212	Agribusiness Small Enterprise Mgt	30	30	00	45	3

**Total Credits**

**18**

## CURRICULUM STRUCTURE

### BACHELOR OF SCIENCE IN AGRICULTURE

*(Animal science option)*

<b>Credit Summary for graduation</b>	<b>161Credits</b>
<b>Course Category</b>	<b>Credits</b>
Major concentration in Agriculture	74
Cognates	57
Research Project	06
Industrial Training/Internship	06
General courses	19
<b>Total</b>	<b>161</b>

<b>Major Concentrations (Animal Science Option)</b>		<b>( 72 Credits)</b>	
<b>Codes</b>	<b>Course Title</b>		<b>CU</b>
BSAG 1101	Principles of Livestock production .		3
BSAG 2102	Agricultural zoology		3
BSAG 2106	Special project in Animal science		3
BSAG 2107	Cell and Molecular biology		3
BSAG 2202	Livestock breeding, behavior and welfare		3
BSAG 2203	Farm management and Agricultural projects		3
BSAG 2205	Agricultural entomology		3
BANS 3101	Anatomy &Physiology of Animals		3
BANS 3102	Principles of Animal Breeding & Reproduction		3
BANS 3103	Animal Nutrition, Feeds and Feeding		3
BANS 3201	Animal Parasites, Diseases &Their Control		3
BANS 3202	Poultry Production		3
BANS 3203	Small Ruminant Production		3
BANS 3204	Pasture and Forage Crop and agroforestry		3
BANS 4101	Beef Cattle and Dairy Production & Mgt		3
BANS 4102	Slaughter & Meat Processing		3
BANS 4103	Anatomy &Physiology of Farm Animals II		3
BANS 4104	Medical & Veterinary Entomology		3
BANS 4105	Skins and hides technology		3
BANS 4106	Aquaculture Production		3
BANS 4202	Animal behavior and welfare		3
BANS 4203	Technology of diary products		3
BCRS 3201	Farm structures and buildings		3
BSAG 2104	Agricultural microbiology		3
BSAG 1102	Principles of genetics		2
<b>Total</b>			<b>74</b>

<b>Cognates</b>		<b>(59 Credits)</b>	
<b>Codes</b>	<b>Course Title</b>		<b>CU</b>
BMAT 1103	Mathematics for Agriculturalist		3
BSAG 1104	Special project ( crop )		1
BSAG 1203	Principles of biochemistry		2
BSAG 1204	Introduction to agribusiness management		3
BSAG 1202	Agricultural botany and plant physiology		3
BSAG 1201	Principles of soil science		3
BSAG 2101	Principles and methods of plant breeding		3
BSAG 2103	Annual crops agronomy		3



BSAG	2105	Fundamentals of crop protection	3
BSAG	2201	Perennial crops agronomy	3
BSAG	2204	Agricultural climatology and biogeography	3
BSBI	2211	Biostatistics	3
BSAG	3101	Undergraduate Seminar	3
BCRS	3105	Rural Sociology & Agricultural Development-	3
BECO	3217	Production and operations management	3
BCON	3301	Sustainable land utilization & planning	3
BPBR	4201	Innovations Technologies in Agriculture	3
BBIM	2212	Agribusiness Small Enterprise Management	3
BCRS	4201	Gender and Agriculture	3
BBIM	1203	Introduction to Agricultural Extension	3
<b>Total</b>			<b>57</b>
<b>General Courses</b>			
<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
GECR	1101	Christian Beliefs	3
GECH	1101	Health Principles	3
GECC	1101	Fundamentals of Computers & Office Application	4
GECL	1101	Introduction to Writing Skills	3
GECS	1201	Issues in science and religion	3
<b>Choose one</b>		<b>( 3 credits )</b>	
<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
GESA	1201	Philosophy of Christian education	3
GECA	1202	Principles of sociology	3
<b>Total</b>			<b>19</b>
<b>Research (6 credit unit)</b>			
<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
BREP	4102	Research Project	3
BREM	2201	Research Methods	
<b>Industrial training ( 6 Credits)</b>			
<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
BINT	2301	Industrial training I	3
BINT	3302	Industrial training II	3
<b>Electives (3 credits)</b>			
<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
GECV	1201	Motor vehicle driving	2
GECV	1202	Catering	2
GECV	1204	Music Appreciation	2

## PROGRAMME MATRIX PER SEMESTER FOR THE FOUR YEAR PROGRAM, BACHELOR OF SCIENCE IN AGRICULTURE

### (Animal Science Option)

The recommended Course Schedule for the four year BSc. (Hons) in Agriculture for Animal Science Option is presented as follows;

<b>First Year</b>		<b>Semester 1</b>				
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
GECR	1101	Christian Beliefs	30	30	00	45 3
GECH	1101	Health principles	30	30	00	45 3
GECC	1101	Fundamentals of com. & its application	30	30	00	45 3
GECL	1101	Introduction to writing skills	30	30	00	45 3
BSAG	1101	Principles of Livestock production .	30	30	00	45 3
BSAG	1102	Principles of genetics	15	0	45	30 2
BMAT	1103	Mathematics for Agriculturalist	15	0	45	30 2
BSAG	1104	Special project ( crop )	00	00	30	15 1
<b>Total credits</b>						<b>21</b>

<b>First Year</b>		<b>Semester 2</b>				
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
GECS	1201	Issues in science and religion	30	30	00	45 3
<b>Select One ( 3 credits )</b>						
GESA	1201	Philosophy of Christian education	30	30	00	45 3
GECA	1202	Principles of sociology	30	30	00	45 3
<b>Select One ( 3 credits )</b>						
GECV	1201	Motor vehicle driving	15	0	45	30 2
GECV	1203	Catering	15	0	45	30 2
BSAG	1201	Principles of soil science	30	30	00	45 3
BSAG	1202	Agricultural botany & plant physiology	30	30	00	45 3
BSAG	1203	Principles of biochemistry	30	30	00	45 3
BSAG	1204	Introduction to agribusiness Mgt	30	30	00	45 3
<b>Total Credits</b>						<b>21</b>

<b>Second Year</b>		<b>Semester I</b>				
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BSAG	2101	Principles & methods of plant breeding	30	30	00	45 3
BSAG	2102	Agricultural zoology	30	30	00	45 3
BSAG	2103	Annual crops agronomy	30	30	00	45 3
BSAG	2104	Agricultural microbiology	30	30	00	45 3
BSAG	2105	Fundamentals of crop protection	30	30	00	45 3
BSAG	2106	Special project in Animal science	30	15	00	00 1
BSAG	2107	Cell and Molecular biology	30	30	00	45 3
<b>Total Credits</b>						<b>22</b>

<b>Second Year</b>		<b>Semester 2</b>				
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BSAG	2201	Perennial crops agronomy	30	30	00	45 3
BSAG	2202	Livestock breeding, behavior & welfare	30	30	00	45 3
BSAG	2203	Farm Mgt & Agric. projects	30	30	00	45 3
BSAG	2204	Agricultural climatology and biogeography	30	30	00	45 3

BSAG	2205	Agricultural entomology	30	30	00	45	3
BREM	2201	Research Methods	30	30	00	45	3
BSBI	2211	Biostatistics	30	30	00	45	3
<b>Total Credits</b>							<b>21</b>

**Summer Period**

Code	Name	LH	TH	PH	CH	CU
BINT 2301	Industrial training I	00	00	90	45	3

**Animal Science Option  
Third Year: Semester 1**

Code	Name	LH	TH	PH	CH	CU
BANS 3101	Anatomy & Physiology of Animals	30	30	00	45	3
BANS 3102	Principles of Animal Breeding & Reproduction	30	30	00	45	3
BANS 3103	Animal Nutrition, Feeds and Feeding	30	30	00	45	3
BCRS 3105	Rural Sociology & Agricultural Dev't	30	30	00	45	3
BSAG 3101	Undergraduate Seminar	30	30	00	45	3
BEVS 3301	Sustainable land utilization & planning	30	30	00	45	3

**Total Credits** **21**

**Third Year: Semester 2**

Code	Name	LH	TH	PH	CH	CU
BANS 3201	Animal Parasites, Diseases & Their Control	30	30	00	45	3
BANS 3202	Poultry Production	30	30	00	45	3
BANS 3203	Small Ruminant Production (Sheep & Goats)	30	30	00	45	3
BANS 3204	Pasture & Forage Crop & agroforestry	30	30	00	45	3
BECO 3217	Production economics	30	30	00	45	3
BCRS 3201	Farm structures and buildings	30	30	00	45	3

**Total Credits** **18**

**Summer Period**

Code	Name	LH	TH	PH	CH	CU
BINT 3302	Industrial training II	00	00	90	45	3

**Fourth Year: Semester I**

Code	Name	LH	TH	PH	CH	CU
BANS 4101	Beef Cattle & Dairy Production & Mgt	30	30	00	45	3
BANS 4102	Slaughter & Meat Processing	30	30	00	45	3
BANS 4106	Aquaculture Production	30	30	00	45	3
BANS 4104	Medical & Veterinary Entomology	30	30	00	45	3
BANS 4105	Skins and hides technology	30	30	00	45	3
BREP 4102	Research project	00	0	90	60	3

**Total Credits** **18**

**Fourth Year: Semester 2**

Code	Name	LH	TH	PH	CH	CU
BANS 4201	Animal behavior and welfare	30	30	00	45	3
BANS 4202	Technology of dairy products	30	30	00	45	3
BCRS 4201	Gender and Agriculture	30	30	00	45	3
BBIM 1203	Intro. to Agricultural Extension	30	30	00	45	3
BPBR 4201	Innovation Technologies in Agric.	30	30	00	45	3
BBIM 2212	Agribusiness Small Enterprise Mgt	30	30	00	45	3

**Total Credits** **18**

**BACHELOR OF AGRIBUSINESS MANAGEMENT****Degree Requirement Summary**

<b>Course Category</b>	<b>Credits</b>
Major Concentration	51
Cognate Requirements	45
General Courses Requirements	21
Electives	3
Research	6
Industrial Attachment	6
<b>Total</b>	<b>132</b>

**Major Concentration**

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<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BAGC 1201	Introduction to Agribusiness Mgt	30	30	0	45	3
BAGC 2104	Commodity Marketing	30	30	0	45	3
BAGC 2202	Agribusiness Small Enterprise Mgt	30	30	0	45	3
BAGC 3101	Agribusiness Operations Research	30	30	0	45	3
BAGC 3102	International Trade in Agriculture	30	30	0	45	3
BAGC 3103	Agric. Co-operatives & Credit Mgt	30	30	0	45	3
BAGC 3201	Agribusiness Financing	30	30	0	45	3
BAGC 3202	Agribusiness Environment & Policy	30	30	0	45	3
BAGS 2202	Farm Mgt & Agricultural Projects	30	30	0	45	3
BAGS 3101	Agribusiness Mgt & Marketing	30	30	0	45	3
BAGS 3202	Farm Management Accounting	30	30	0	45	3
BECO 1101	Microeconomics I	30	30	0	45	3
BECO 1202	Principles of Farm business Mgt	30	30	0	45	3
BECO 1202	Macroeconomics I	30	30	0	45	3
BMGT 3205	Production and Operations Mgt	30	30	0	45	3
BAGC 1202	Intro. to Agricultural Extension	30	30	0	45	3
BAGC 2201	Post-Harvest Technology	30	30	0	45	3

**Cognate Requirements**

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<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BPPG 3104	Project monitoring and evaluation	30	30	0	45	3
BPSM 2101	Intro. to Proc. & Supply Chain Mgt	30	30	0	45	3
BGCP 4203	Rural Sociology & Agricultural Devt	30	30	0	45	3
BAGC 3203	Intro. to Mgt Information Systems	30	30	0	45	3
BHRM 2209	Human Resource Management	30	30	0	45	3
BMGT 3102	Organizational Behavior	30	30	0	45	3
BBSA 2102	Mercantile Law	30	30	0	45	3
BESB 2101	Basic Entrepreneurship	30	0	0	45	3
BAGC 1202	Introduction to Farm Power and Machinery	30	30	0	45	3
BMAT 1108	Introductory Mathematics	30	30	0	45	3
BAGC 1203	Principles of Crop Production	30	30	0	45	3
BAGC 1204	Principles of Livestock Production	30	30	0	45	3
BAGC 2103	Gender in Agricultural Development	30	30	0	45	3
BAGS 1104	Special Project (Crop science)	30	30	0	45	3

**General Courses**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECR 1101	Christian Beliefs	30	30	0	45	3
GECH 1101	Health Principles	30	30	0	45	3
GECC 1101	Fundamentals of Computers & Office					

		Application	45	0	45	60	4
GECL	1101	Introduction to Writing Skills	30	30	0	45	3
GECS	1201	Issues in Science and Religion	30	30	0	45	3
GECA	1202	Principles of Sociology	30	30	0	45	3
GECV	1201	Motor Vehicle Driving	15	0	45	30	2

**Electives (Choose at least 3 Credits)**

Code	Name	LH	TH	PH	CH	CU
BULA 0002	Introductory French	30	30	0	45	3
BULA 0001	Introductory Swahili	30	30	0	45	3

**Research (6 Credits)**

Code	Name	LH	TH	PH	CH	CU
BAGC 3101	Research Methods	30	30	0	45	3
BRSP 3307	Research Project	0	30	90	45	3

**Field Attachment (6 Credits)**

Code	Name	LH	TH	PH	CH	CU
BAGC 2301	Field Attachment	0	0	270	90	6

**Recommended Schedule for Bachelor of Science in Agribusiness****First Year****Semester One**

Code	Name	LH	TH	PH	CH	CU
GECH 1101	Health Principles	30	30	0	45	3
GECC 1101	Fundamentals of computers & Office Application	45	0	45	60	4
BECO 1101	Microeconomics I	30	30	0	45	3
GECS 1101	Issues in Science and Religion	45	30	0	60	4
GECR 1101	Christian Beliefs	30	30	0	45	3
GECL 1101	Introduction to Writing Skills	30	30	0	45	3
BAGC 2106	Intro. to Farm Power & Machinery	30	30	0	45	3

**Semester Two**

Code	Name	LH	TH	PH	CH	CU
GECS 1202	Statistics	30	30	0	45	3
GECA 1202	Principles of Sociology	30	30	0	45	3
GECV 1201	Motor Vehicle Driving	15	30	0	45	2
BAGC 1208	Intro. to Agribusiness Mgt	30	30	0	45	3
BAGC 1204	Principles of Livestock Production	30	30	0	45	3
BAGC 1202	Intro. to Agric. Extension	30	30	0	45	3
BAGC 1203	Principles of Crop Production	30	30	0	45	3

**Second Year****Semester One**

Code	Name	LH	TH	PH	CH	CU
BAGC 2105	Agric. Co-operatives & Credit Mgt	30	30	0	45	3
BENT 2101	Basic Entrepreneurship	30	30	45	45	3
BAGC 2103	Gender in Agricultural Development	30	30	0	45	3
BAGC 2107	Farm Mgt & Agricultural Projects	30	30	0	45	3
BBSA 2102	Mercantile Law	30	30	0	45	3
BPPG 3104	Project monitoring and evaluation	30	30	0	45	3
BAGS 1104	Special Project (Crop science)	30	30	0	45	3

<b>Semester Two</b>						<b>21</b>
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BAGC	2203	Agribusiness Mgt & Marketing	30	30	0	45 3
BAGC	2201	Post-Harvest Technology	30	30	0	45 3
BDEV	2201	Development Studies	30	30	0	45 3
BHRM	2209	Human Resource Management	30	30	0	45 3
BAGC	2202	Agribusiness Small Enterprise Mgt	30	30	0	45 3
BAGS	2204	Farm Management Accounting	30	30	0	45 3
BAGC	2104	Commodity Marketing	30	30	0	45 3

<b>Summer</b>						
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BAGC	2301	Field Attachment	0	0	270	90 6
BAGC	2302	Firm Mgt Case Study (Research)	30	30	45	60 3

**Third Year**

<b>Semester One</b>						<b>24</b>
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BAGC	3101	Agribusiness Operations Research	30	30	0	45 3
BMGT	3102	Organisational Behaviour	30	30	0	45 3
BAGC	3102	International Trade in Agriculture	30	30	0	45 3
BAGC	3103	Agricultural Co-operatives & Credit Mgt	30	30	0	45 3
BULA	0001/0002	Elective (French/Kiswahili)	30	30	0	45 3
BACK	3101	Research Methods	30	30	90	45 3
BAGC	3104	Agribusiness Small Enterprise Mgt	30	30	0	45 3
BPSM	2101	Introduction to Procurement & Supply Chain Management	30	30	0	45 3

<b>Semester Two</b>						<b>21</b>
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BAGC	3201	Agribusiness finance	30	30	0	45 3
BAGC	3202	Agribusiness Environment & Policy	30	30	0	45 3
BMGT	3205	Production and Operations Mgt	30	30	0	45 3
BMGT	3204	Strategic Management	30	30	0	45 3
BRSP	3207	Research Project	0	30	90	45 3
BAGC	3203	Management Information Systems	30	30	0	45 3
BGCP	3204	Rural Sociology & Agricultural Dev't	30	30	0	45 3

## COURSE DESCRIPTIONS

### **GECR 1101 Christian Beliefs**

**Level:** First Year, Semester One

This course introduces students to the fundamental beliefs of the Christian faith. The emphasis is put on Bible themes such as revelation, Bible and inspiration, Godhead, man's creation, fall and salvation, nature of man, life, death, resurrection, Sabbath, baptism, stewardship, Lord's Supper, Christian behavior, great controversy, the second coming of Christ, millennium, the end of sin and new earth.

### **GECH 1101 Health Principles**

**Level:** First Year: Semester One

This course exposes students to the basic principles of health. Many diseases can be prevented if a learner applies knowledge concerning how to be healthy. Health must be viewed as the harmonious development of spiritual, physical, mental and social aspects of a human being. Since health is the foundation of happiness, this course unfolds different approaches on how to be healthy. Emphasis is placed on causes and effects of Human Immunodeficiency Virus (HIV), Sexual Transmitted Diseases (STDs) and other diseases transmitted through sexual activity.

### **GECL 1101 Introduction to Writing Skills**

**Level:** First Year; Semester One

This course is designed to help students develop basic writing skills. Four kinds of approaches to composition will be taught: descriptive, narrative, expository and argumentative. Other topics will include: parts of a sentence, sentence errors, capitalization, and use of commas, searching for information, documenting sources and preparing a manuscript. Students will get hands-on experience in writing reports and compositions and will be required to write a well-documented research paper.

### **GECC 1101 Foundations of Computers And Applications**

**Level:** First Year, Semester One

This course unit is intended to introduce learners to fundamental computer hardware and software concepts to enable them appreciate the benefits of deploying ICT in business and office systems. The course will cover classification of computers, major PC components and explain the functions of each component, introduction to windows operating system, office applications like MS Word, Excel, PowerPoint and Access, basic network concepts and Internet usage. The course will also cover basic security and ethical issues experienced in computing field.

### **BSAG 1101 Principles of Livestock Production**

**Level:** First Year; Semester 1

The course deals with overview of Livestock Production; Origin and domestication of Livestock; Utilization of Livestock; Definition and explanation of common terms in livestock Science; Definition and explanation of common terms in poultry Science; Morphological and production characteristics of breeds/strains/types of beef cattle; Morphological and production characteristics of poultry; System of Management of beef cattle; System of Management of dairy cattle; System of Management of Sheep and goat; System of Management of poultry; System of Management of Swine; Site selection and layout; Water, water supply, air and ventilation; Sanitation and drainage; Principles and practices of disease prevention and control in beef and dairy cattle; Principles and practices of disease prevention and control in poultry; Care and management of livestock during heat, mating gestation, parturition, weaning and drying; Administration of medicaments; Determination of age in Livestock;

The functions of food; The constituents of food and dry matter; Digestion and the digestive system of farm livestock; Feeds commonly used in livestock feeding; Terms used in animal nutrition; Feeding dairy cattle for milk production; Ration balancing; Role of pasture in ruminant livestock production; Record keeping in livestock production; Milk herd practices/waste disposal.

### **BSAG 1102 Principles of Genetics**

**Level:** 1st Year; Semester 1; 03 Credit Units

The course describes basic concepts of genetics; Significance of genetics in agriculture and Society. It also describes the Investigative approaches in genetics including cell division, and regulation of the cell cycle. Topics such as Spermatogenesis and oogenesis and principles of Mendelian genetics are also discussed. Other topics covered include; alleles; Sex-linked genes; Gene interaction; epistasis; Phenotypic expression: penetrance and expressivity temperature effects, nutritional effects; Heredity vs. environment; Linkage; linkage ratio; Incomplete linkage, single crossovers; Multiple crossovers; Chromosome mapping; Protein as the genetic material; RNA as the genetic material; Structure of DNA; Structure of RNA; Denaturation and Renaturation of nucleic acid; Molecular Hybridisation techniques; Viral and Bacterial chromosomes; Mitotic chromosomes; Polytene chromosomes; Mitochondria! DNA and heterochromatics are explored, including Mechanisms of sex determination; Variation; Molecular basis of mutation; population Genetics; and Physiological Genetics.

### **BMAT 1103 Mathematics for Agriculturalists**

**Level:** First Year Semester One

The course is designed for non-mathematics students. It provides a basis for those subjects that require a fundamental calculus background. Topics include; further differentiation, further integration and partial fractions, solving higher degree equations, Curve sketching, ordinary differential equations, Maclaurin's series, complex numbers and vectors in three dimensions. Functions, limits and continuity, differentiation, rules and theorems for derivatives, inverse functions, and application of differentials to approximation

### **GECV 1201 Motor Vehicle Driving**

**Level:** First Year, Semester Two

This course will introduce the students to motor vehicle driving and maintenance. Specific topics include: the motor vehicle layout, alternative arrangements of engine and transmission units, driving a manual vehicle, driving an automatic vehicle, normal and emergency stopping, defensive driving, simple vehicle maintenance, tools used in motor vehicle maintenance, the highway code, causes and remedies of road accidents, and motor vehicle insurance.

### **BSAG 1201 Principles of Soil science**

**Level:** First Year; Semester Two

The course describes the development of soil science; Defining soil, Four components of soil; Primary minerals; Secondary minerals; Organic components; Rocks and their classification; Weathering - mechanical and chemical processes; Factors affecting the weathering of minerals - Climatic, Physical and Chemical; Parent materials and their classification; Description of soil profiles; Soil classification; Soil colour; Soil structure; Soil aggregation and crusting; Soil texture; Stokes Law; Particle size analysis; Soil consistency; Soil pH; Soil moisture content; Bulk density; Particle density; Porosity; Volumetric moisture content; Degree of saturation; Soil Formation; Factors of soil formation; Stages in the development of soil; Primary minerals in soils; Isomorphous substitution; Framework structures; Silicate clays; Clays - smectites; Clays - vermiculite and illite; Non-silicate clays; Permanent and ph- dependent charges; Surface area; Cation exchange; Exchangeable cations; Base cations; Cation exchange capacity; % Base saturation; Anion exchange; Ligand exchange; Causes of soil acidity; Mechanism of



acidification; Acidity and Al; Liming reactions and materials; Soil organisms - types, survival tactics; Nutrient cycling in soil ecosystem; Importance of soil organic matter; Decomposition of soil organic matter; Carbon cycle; Humus formation; Significance of the C/N ratio; Mineralisation/ immobilisation; Reasons for constancy of C/N ratio; Rate of organic matter decay; Properties of soil water; Pore water composition; Quantification of soil moisture; Moisture release curves; Water storage by soil; Water movement in soil; Saturated flow; Soil climate; Radiant heating of soil; Heat movement through soil; Thermal conductivity and heat capacity; Management of soil temperature; Essential plant nutrients; Soil productivity and fertility; Nutrient uptake by plants; Soil nitrogen; Soil sulphur, calcium and magnesium; Soil phosphorous and potassium.

### **GECA 1202 Principles of Sociology**

**Level:** First Year, Semester Two

This is a study of the development of sociology as a science; some concepts and ideas associated with human behavior such as culture and its contexts, social structure, socialization, social groups, social institutions, stratifications, deviance and social control are investigated as they relate to the African context.

### **BSAG 1202 Introduction to Agricultural Botany and physiology**

**Level:** First Year Semester 2

The course deals with general concepts of living organisms with reference to plants; Description of some concepts in Crop Botany; types of cells; Anatomy of the cell; cell wall, cytoplasm; function of cell organelles; nucleus of the cell; Cell division - mitosis; meiosis; types of plant tissues and characteristics; Morphology of the root; Anatomy of the dicot and monocot roots; Secondary thickening of the root; The soil and the root system; Morphology and functions of the stem; Anatomy of the dicot and monocot stems; Secondary thickening and modifications of the stem; functions of the leaf; Anatomy and morphology of the monocot and dicot leaf; Transpiration, conduction and absorption; parts of a typical flower; Variations in floral structure; symmetry and reduction and modifications of parts; The development of the flower; Pollination – agents, modifications, and types of pollination; Fertilization; Fruit development and structure of the fruit; Classification and types of fruits; Dissemination of seeds and fruits; Development of the seed; seed germination; Sugarcane, Rice, Citrus Fruits and Pineapples; taxonomy; binomial system of classification. The course provides understanding of plant metabolic reactions, physiological processes, their role, and plant adaptations to different environments. Specific topics covered include; Plant metabolic processes, definition and rationale of photosynthesis, Types of Photosynthesis in green plants, leaf, adaptations for photosynthesis, factors that influence photosynthesis, comparison between photosynthesis and respiration; cellular respiration, mineral nutrition, Nitrogen metabolism and growth analysis, Environmental plant physiology: effects of temperature, salt and water stress and the implications of globally rising carbon dioxide; movement mechanisms in and out of plant cells, and within plants.

### **BSAG 1203 Principles of Biochemistry**

**Level:** First Year Semester Two

The course describes biochemical concepts that are vital in living cells. Topics include; acids, bases, buffer, redox reactions, and osmotic pressure; Colloids, membrane structure and function. It also describes nature of enzymes; carbohydrates; Carbohydrate Metabolism: titration methodology; Designing enzyme assays and Basic tests for food substances. The Laboratory methodologies involved in determining inhibition of respiration; Quantitative determination of amino acids; Qualitative determination of amino acids; Chromatography of amino acids; Chloroplast structures and how they fit into the light reactions of photosynthesis; Calculations and data analysis of C3 and C4 plants' photosynthetic efficiencies; Protein Analysis and Analysis of fats are also covered.

### **BSAG 1204 Introduction to Agribusiness Management**

**Level:** First Year Semester Two

The course describes a detailed scope of economic concepts such as; Basic theory of the consumer; Laws of supply and demand; Basic theory of agriculture production; Other concepts such as Economics of feed formulation; Economic threshold in crop protection and sustainable harvesting; Economic problems in Ugandan Agriculture; economic modeling in problem solving; Collection and interpretation of economic data and Models of economic growth are also discussed.

### **BSAG 2101 Principles and Methods of Plant Breeding**

**Level:** Second Year Semester One

The course describes centers of origin and diversity of crop plants. Variation in plants (hereditary and environmental). Significance of reproductive system in cultivated plants. Techniques and principles of crop germ plasma bank; selection methods in breeding programs; maintenance of breeding stock; multiplication and distribution of improved crop varieties. Role of plant breeding in crop production.

### **BSAG 2102 Agricultural Zoology**

**Level:** Second Year Semester One

The course describes Differences between living and non-living; Cell structure; Mitosis; Meiosis; Simple tissues; Protoplasm; Protozoa - characteristics, classification, the amoeba; Protozoa - Trypanosoma; Protozoa - Plasmodium, Entamoeba; Protozoa - Eimeria; Platyhelminthes - characteristics and classification; Platyhelminthes - Fasciola hepatica; Platyhelminthes - F. hepatica contd.; Nematoda - characteristics and classification; Animal parasitic nematodes; Plant parasitic nematodes; Annelida -classification and characteristics; Earthworm and its importance, L. terrestris; Arthropoda - characteristics and classification; Crustacea - classification and characteristics The shrimp; Insecta - classification and economic importance; The cockroach; Methods of insect control; Zoological nomenclature and classification; Survey of some economic insect pests in Guyana; Survey of Phylum molusca - classification, economic significance; The snail - Pemacea sp.; Pest damage by snail; Echinodermata - classification and economic importance; Pisces - classification and economic importance; Adaptations of Pisces; Reptilia - classification and economic significance; Aves - classification, characteristics, economic importance; Adaptations of Aves; Mammalia - classification and economic significance.

### **BAGC 2103 Agricultural Microbiology**

**Level:** Second Year Semester One

The course is designed to provide detailed description of the history and development of microbiology; Classification of microorganisms; Economic importance of microorganisms; Structure and evaluation of bacteria and cyanobacteria and their relative position in the living world; Structure and evaluation of fungi and algae and their relative position in the living world; Structure and evaluation of protozoa and viruses and their relative position in the living world; Micro-organisms in milk and milk products; Significance of bacteria in milk; Desirable and harmful bacteria in milk; Microbial spoilage of milk; Prevention of spoilage; Role of micro-organisms in butter and cheese production; Pathogenic bacteria associated with milk products and their control; Importance of microbes in fermented foods; Undesirable flora in foods; Principles of food preservation; Microbial spoilage of foods and prevention; Food poisoning: Types causative organisms and transmission; Food poisoning symptoms and control; Food inspection; Introduction to Industrial Microbiology; Origin of fermented products: beverages, butanol, acetone; Alcoholic fermentation, Amino acid fermentation; Nucleotide fermentation; Manufacture of vinegar and antibiotics; Importance

of micro-organisms in the soil, microbial population in soil; Autotrophic and heterotrophic organisms in soil; Carbon and nitrogen cycles, carbonation Mycorrhizae; Symbiotic and non-symbiotic and denitrification; Ammonification; Decomposition of organic matter; Chemistry of soil organic matter; Chemistry of soil organic matter; Microbial changes involved in green manuring; Microbial changes involved in composting; Breakdown of herbicides by micro-organism; Breakdown of insecticides by micro-organisms; Bio-fertilizers and bio- insecticides.

### **BSAG 2105 Fundamentals of crop protection**

**Level:** Second Year Semester One

The course deals with history of pest management, causes of outbreaks, the stake holders in pest management, sampling, monitoring and forecasting of crop pests, Yield loss-Approaches and objectives, measurement of yield loss, crop loss surveys, plant growth analysis and modeling, manipulative techniques, paired treatment experiments, field trails, and principles, Economics of yield loss, Ecology, injury threshold, recognition and preservation of important of pest species.

### **BSAG 2107 Cell and Molecular Biology**

**Level:** Second Year Semester One

This course is designed to help students to develop basic knowledge and skills in cell and molecular biology and become aware of the complexity and harmony of the cell; apply this knowledge in agricultural production and innovation. Some of the topics to be covered include; The chemical basis of life, properties of cells, prokaryotic and eukaryotic cells, viruses, biological molecules: carbohydrates, lipids, proteins, and nucleic acids, techniques used in cell and molecular biology, enzymes, metabolism, mitochondrion structure and function, chloroplast structure and function; plasma membrane composition, structure, and function, The movement of substances across cell membranes, The endomembrane system, The extracellular matrix, The DNA structure and function, Genes and chromosomes, DNA replication, transcription, translation, cytoskeleton and cell motility, cellular reproduction, cell signaling, and cancer

### **BSAG 2201 Livestock Breeding, Behavior and Welfare**

**Level:** Second Year; Semester Two

The course describes Qualitative and quantitative traits of farm animals; animal variation and selection principles; breeding and environmental effects; hybrids and heterosis; breeds and Breeding methods; breeding plans for different animal species; behavior of farm animals.

### **BREM 2201 Research Methods**

**Level:** Second Year Semester Two

The course provides an introduction to Research, Research techniques and procedures in agricultural experimentation. The course will focus on an introduction to various research designs including experimental and non-experimental, as well as quantitative and qualitative research methods. In addition, the course will focus on providing a practical understanding of several statistical tools used in scientific research. The emphasis will be on knowing when to use the various tests, what they measure, and how to interpret results. Key areas such as Literature search and review; scientific writing; scientific presentation; Critical scientific review; Selection of research problem, research proposal and development, literature review, preparation of outline, writing and presentation of research findings; Data types and data collection techniques; Quantitative and qualitative methods and data analyses; report writing; and ethical issues will also be discussed using practical examples.

### **BSAG 2203 Farm Management and Agricultural Projects**

**Level:** Second Year Semester Two

The course describes Principles of agricultural production and resource use-factor, factor-product, and product-product relationship. Farm-farm costs and revenue theories. Types

of farm records and their uses. Farm and planning methods including budgeting, gross margin analysis, and programme planning. Project analysis and planning. Project proposal, monitoring and evaluation.

### **BAGC 2204 Agriculture Climatology and Biogeography**

**Level:** Second Year Semester Two

Principles, aims and scope of climatology and biogeography. The elements and controls of climate and weather; dynamics of earth's moisture; the dynamics of pressure and wind systems. Condensation and precipitation processes. Seasonal Variations in temperature, day-length, radiation, rainfall, and evapotranspiration. Equipment for and maintenance of standard meteorological stations. The climate of Lesotho. Relation between agriculture and climate, with references to irrigation, crops, livestock, pests, and diseases.

### **BSAG 2205 Agricultural Entomology**

**Level:** Second Year Semester Two

The course is designed to describe the beneficial and harmful aspects of insects; Distinguishing characteristics of arthropods and insects; Classification and mode of action of insecticides; Types of insecticide formulations; Insect phylogeny and distinguishing characters of orders; Survey of orders of economically important insects in Guyana; External anatomy - cuticle, head and mouth parts; External anatomy - thorax, abdomen, legs and their modifications; Internal anatomy - digestive, circulatory, excretory, respiratory and muscular systems; Growth and development in insects - eggs and metamorphosis; Types of metamorphosis; Larval and pupal types; Animal classification and nomenclature; Insecticide safety; Origins of pests; Ecological basis of pest control; Importance of pest identification; Methods of insect control; Integrated pest management; Insect pests of rice; Insect pests of sugar cane; Insect pests of man; Insect pests of coconuts; Insect pest of livestock and control; Insect pests of vegetables; Application of insecticides.

### **BSBI 2211 Biostatistics**

**Level:** Second Year Semester Two

This is a practically oriented course to introduce Biology and Agriculture students to methods of statistical analysis, which will cover statistics of central tendency and dispersion, probability, correlation, regression, hypothesis testing, t-test, analysis of variance non-parametric tests and Chi Square. The students will use standard computerized methods, as well as re-sampling methods.

### **BINT 2221 & 3231 Internship / Industrial / Field Attachment (For all Options)**

**Levels:** Second and Third Year (Summer Session)

In addition to field and hands-on Agricultural courses this course is specifically designed to provide an additional opportunity for students to gain relevant work experience in a field agricultural environment in different areas of interest. In this course, Students will train for 8 weeks in an agricultural environment which could be an educational institution, research center, government ministry, local government agency, private commercial agricultural company, such as Kakira Sugar works, Mehta Group of companies etc. During this period, the students will be expected to make a significant contribution to a relevant project under the supervision of specific industrial staff and Bugema University personnel. Students are obliged to actively participate in all relevant Industrial Training Programs so as to gain additional skills in different areas of option; i.e. Biotechnology and Plant breeding; Agronomy and soil fertility, Animal Production and Nutrition, Crop Science and Management, and Agribusiness Innovation and Management. At the end of the training, Students will prepare a final report on their placement, and make a presentation of their work. Agriculture student will attend two internship sessions before graduation, and only one Internship session for students specializing in Agribusiness Innovation and Management.

### **BANS 3101 Anatomy and Physiology of Farm Animals**

**Level:** Third Year Semester One

Parts of beef and dairy cattle, sheep, goat, pig, rabbit and poultry. Fundamentals of cell biology: The animal cell: its structure and physiology. Anatomy and physiology of Annual tissues, the nervous system, skeletal system, muscles, bone, circulatory system, reproductive, digestive, special senses and other systems of farm animals. Physiological functions of animals-homeostasis. Body temperature regulation; excretion and reproduction. Endocrinology. The blood and circulation. Lactation, milk let-down, and egg production. Water balance.

### **BPBR 3101 Agricultural Microbiology**

**Level:** Third Year Semester One

The course describes the development of microbiology; Classification of microorganisms; Economic importance of microorganisms; Structure and evaluation of bacteria and cyanobacteria and their relative position in the living world and their physiological and chemical processes they undertake as living organisms. Some of the specific topics addressed in this course include; Structure and evaluation of fungi and algae; protozoa and viruses; microorganisms in milk and milk products; Microbial spoilage of milk; Pathogenic bacteria associated with milk products and their control; Principles of food preservation; Food poisoning: Types causative organisms and Industrial Microbiology, including Alcoholic fermentation, Amino acid fermentation; Nucleotide fermentation; Manufacture of vinegar and antibiotics and the Importance of micro-organisms in the soil, Carbon and nitrogen cycles, Breakdown of herbicides.

### **BCRS 3101 Plant Nutrition and Soil Fertility**

**Level:** Third Year Semester One

The course majorly covers factors controlling growth of plants, factors controlling availability and uptake of plant nutrients and nutrients required by different plants. It covers soil fertility status of E. African countries, factors affecting plant growth, plant nutrients, and forms of nutrients taken by plants, functions of plant nutrients and their deficiency symptoms. Organic and Inorganic fertilizers, loss of plant nutrients, cycles of major plant nutrients, soil organic matter, C: N ration and its role in organic matter mineralization and immobilization, composting process, soil acidity and liming.

### **BCRS 3102 Seed Science and Technology**

**Level:** Third Year Semester One

The course describes major principles and concepts in seed science and technology. It covers concepts such as Megasporeogenesis; Mega-gametogenesis; Microsporeogenesis; Microgametogenesis; Fertilization; Maturation; Seed germination and vigor; seed deterioration; seed dormancy; Seed production and harvesting; Field inspection, isolation; Expected replacement demand, threshing index; Seed conditioning; Seed treatment and storage. Other concepts covered include, seed storage; Seed certification seed dormancy and Purity analysis of seeds.

### **BCRS 3102 Soil Conservation and Management**

**Level:** Third Year Semester One

The course deals with hydrological cycle; Watershed management; Soil erosion and conservation schemes; Water and wind erosion; Management of losses of soil, water and nutrients due to erosion; Agronomic methods of erosion control; Soil Conservation practices; Principles of water conservation; Water storage structures; Water harvesting and small scale irrigation; Drainage techniques; Success and/or failure of soil and water management techniques practiced in tropics.

**BANS 3102 Principles of Animal Breeding & Reproduction****Level:** Third Year Semester One

The course describes complexity of traits in farm animals; variations and statistical measure; artificial and natural selection; computation of some statistics applicable to quantitative characters and genetic progress. Other topics to be covered include; selection differentials; estimation of heritability; index selection; types of correlations; breeding methods; dairy cattle breeding; beef cattle, sheep and swine breeding.

**BPBR 3102 Molecular Biology****Level:** Third Year Semester One

DNA structure and function, DNA as the primary genetic material, Protein structure and function - Protein structure and function - II, Recombinant DNA techniques - Biophysical Methods for studying macromolecules, Analytical methods for studying genes and gene activity, Analytical methods for studying proteins, DNA replication, Prokaryotic, transcription, Control of gene expression in prokaryotes, Eukaryotic transcription and transcription factors, Transcription, Chromatin structure and eukaryotic, transcription. Chromatin structure, Post-transcriptional events - RNA splicing, Post transcriptional events - capping and polyadenylation, Translation, Recombinant DNA and genetic diseases, Gene knockouts and transgenic animal research

**BANS 3103 Animal Nutrition, Feeds and Feeding****Level:** Third Year Semester One

The course deals with general introduction to animal nutrition; general composition of the animal body and its tissues as a function of nutrients obtained from feed; general composition of feed stuffs; biochemistry, function and source of food nutrients; classification of feedstuffs; feed additives in animal nutrition; identification of different classes of feedstuffs; nutritional significance of the animal's digestive system; study of the animal's digestive system; the study of carbohydrates, fats and protein - metabolism and utilization; the final common pathway of energy metabolism; the energy transfer system; vitamins - sources, utilization; study of fat and water soluble vitamins; study of other vitamins and vitamin-like compounds; macro-minerals - essential macro elements; micro-minerals - essential micro elements; other inorganic elements and review.

**BEVS 3103 Sustainable Land Utilization and Planning****Level:** Third Year: Semester One

The course is designed to provide students with an understanding of principles of land use planning and of the significance of appropriate land use planning for sustainable environmental management. The course covers land use planning, urban growth and sustainable development. Land division and conversion. The environmental and human impacts of urban development. Land use issues at the urban-rural fringe. Land capability assessment as a planning tool. Land use planning and regulation. Environmental regulation. Non-regulatory means of resolving land use conflicts. Planning for sustainable environments, and general principles of sustainable planning systems.

**BPBR 3103 Microbial Molecular Genetics****Level:** Third Year Semester One

The course is designed to investigate the contributions microorganisms in gene regulation and genetic structure; integrate knowledge from biochemistry, molecular biology, and genetics with microbiology. It will also enable students to gain critical perspectives on molecular genetics; introduce students to current problems in gene control and expression, and provide students with sufficient background to evaluate critically the current literature in microbial and molecular genetics. Some of the topics to be covered include; Essentials and the

Life Cycle of microbes, chromatin structure and replication in prokaryotes and eukaryotes, Gene Expression in Microbial Systems, Mutation and Mutagenesis, Prokaryotic Plasmids, Conjugation in Bacteria, Transformation in Bacteria, Prokaryotic Viruses, Transposition in Prokaryotes and Lower Eukaryotes, Recombination in Prokaryotes and Lower Eukaryotes, DNA-Repair—Model Systems: *E. coli* and *S. cerevisiae*, Regulation of Gene Expression in Bacteria and Fungi, Classic Genetic Analyses in Lower Eukaryotes

### **BPBR 3104 Biochemistry II**

**Level:** Third Year Semester One

Introduction to amino acids; structure of amino acids found in proteins; non-protein amino acids; properties of amino acids; reactions of amino acids; biosynthesis of amino acids:- transamination deamination; oxidative amination reactions, urea cycle; biochemistry of nitrogen fixation by symbiotic and non- symbiotic systems; nucleic acid structures; purine and pyrimidine nucleosides, nucleotides; nucleic acid metabolism; classification of proteins:- fibrous proteins globular proteins, antibodies, hormones, etc.; bioenergetics: high and low energy compounds; photosynthesis: the light reactions; photosystems i and ii; relationship of light reactions to the dark reactions; photosynthesis:- the dark reactions - fixation of  $CO_2$  in the calvin cycle; c3 and c4 photosynthetic pathways; cam plants; classification of fats; biosynthesis of fats; protein structure:- primary structure, secondary structure, tertiary structure, quaternary structure; protein biosynthesis; protein synthesis; role of amino acids and proteins in plant and animal growth; fat metabolism; introduction to genetic engineering; potential of genetic engineering in agriculture; non-traditional source of proteins - principles and techniques of utilization etc.

### **BGCP 3104 Organic Agriculture**

**Level:** Third Year Semester One

Organic farming, refers to agricultural system that uses ecologically based pest controls and biological fertilizers derived largely from animal and plant wastes and nitrogen-fixing cover crops. Modern organic farming was developed as a response to the environmental harm caused by the use of chemical pesticides and synthetic fertilizers in conventional agriculture, and it has numerous ecological benefits. Compared with conventional agriculture, organic farming uses fewer pesticides, reduces soil erosion, decreases nitrate leaching into groundwater and surface water, and recycles animal wastes back into the farm. However, the challenge for future organic agriculture will be to maintain its environmental benefits, increase yields, and reduce prices while meeting the challenges of climate change and an increasing world population.

### **BCRS 3105 Rural Sociology and Agricultural Development**

**Level:** Third Year Semester One

The course describes the Principles of society, major social institutions, and social change. Emphasis is put on social changes in rural life, social systems; rural organizations, population, and family living with a clear relation on agricultural development in a rural setting.

### **BSAG 3106 Undergraduate Seminar**

**Level:** Third Year Semester One

This course is designed to equip students with communication skills and presentation of papers from literature and recent works done by researchers. Students will be able to manipulate presentation equipment such as flip boards, projectors, power point programs etc. Each student should be able to innovate, improvise, and design poster or other scientific materials from scientific literatures which will be presented at the end of the course.



### **BANS 3201 Aquaculture Production**

**Level:** Third Year Semester Two

Introductory fisheries - types and planning; systems of aquaculture; establishment and management of ponds; management of fish - sexing and fingerling production; fattening units - stocking, fertilization etc.; feeding and nutrition; pests and diseases, prophylactic and curative approaches; harvesting and cleaning pond; marketing.

### **BCON 3201 Sustainable Land Use and Policy**

**Level:** Third Year: Semester 2

The course is designed to provide students with an understanding of principles of land use planning and of the significance of appropriate land use planning for sustainable environmental management. The course covers land use planning, urban growth and sustainable development. Land division and conversion. The environmental and human impacts of urban development. Land use issues at the urban-rural fringe. Land capability assessment as a planning tool. Land use planning and regulation. Environmental regulation. Non-regulatory means of resolving land use conflicts. Planning for sustainable environments, and general principles of sustainable planning systems.

### **BANS 3202 Pasture and Forage Crop Production**

**Level:** Third Year Semester Two

The course deals with production and use of commonly grown pasture and forage crops will be covered. Topics include pasture and forage establishment, maintenance, harvest, and storage. Emphasis will be on maximizing the use of homegrown forages to meet the nutritional requirements of today's high producing animals, principles and practices of growing and managing pasture and forage crops.

### **BANS 3202 Animal Parasites, Diseases and Control**

**Level:** Third Year Semester Two

The course describes the Anatomy of mammals and poultry; Disease - its nature causative agents; Disease - methods of spread; Disease control and eradication - general principles; Common diseases of ruminants; Common diseases of pigs; Common diseases of poultry; Fornucolosis; Parasitology - effects of parasites on livestock; Parasitology -general principles of control; Common parasitic diseases - ruminants; Common parasitic diseases - poultry; Common parasitic diseases - pigs; Common diseases of rabbits; General care and diseases of horses; Care of pregnant animals and neonates; Routine procedures e.g. dehorning, castrating.

### **BCRS 3203 Principles of Crop Production**

**Level:** Third Year Semester Two

Evolution of Agriculture; Scope and importance; Relation with other sciences and industries; Definition, history and role of Agronomy in Crop Production; Classification of crops; Classification of crops; Definition and Quality of good seeds; Tillage practices; Importance of legumes in rotation; Principles underlying method of sowing; Planting and transplanting; Principles underlying crop production; Importance of crop production in agriculture; Mixed cropping and crop mixture; Intercropping and multiple cropping; Role of water in crop production; Water requirement of important crops; Principles underlying use of manures; Principles underlying use of fertilizers; Agronomic practices in relation to problem soils; Methods of irrigation; Water resources of Guyana; Efficiency of irrigation; Frequency and levels of irrigation; Definition and importance of drainage; Causes of poor drainage; Methods of drainage. Laboratory practical and field trips will be carried out in order to support the theoretical aspects of the course.



### **BANS 3203 Poultry Production**

**Level:** Third Year Semester Two

The course gives an overview of the poultry industry worldwide with emphasis on CARICOM; Review of poultry breeds; poultry biology and physiology; Breeding requirement; Nutrition, Management; Poultry records; Disease management and poultry products.

### **BANS 3204 Small Ruminant Production (Sheep and Goats)**

**Level:** Third Year Semester Two

The course gives an overview of the industry (sheep and goat) worldwide with emphasis on Uganda. It focuses on economically important breeds and locally adapted breed types. Aspects of reproduction; fertility in goats; objectives for breeding plans -goats; feeding habits and behavior of goats; diseases of goats; parasites; health control; breed improvement in sheep; nutrient requirements of sheep; prevention and control; processing and marketing of sheep and sheep products; sheep and goat production in Uganda - and problems and constraints to ruminant production are covered. Other topics discussed include; selection criteria; housing - hutch and cage construction; equipment and handling; management of bucks, does and litters; and rabbit diseases.

### **BCRS 3202 Farm Structures and Buildings**

**Level:** Third Year Semester Two

The course deals with functions and classification of various farm structures and buildings. Materials of construction., farmstead planning, silos, cribs and other storage structures, livestock buildings, farm dwellings, workshop, building for crop production and crop processing structures, Environmental and physiological factors.

### **BCRS 3201 Farm Power and Machinery**

**Level:** Third Year Semester Two

The course describes the role and application of engineering methods and techniques in agricultural farms. It presents basic terms and concepts, theories and principles of farm engineering. Engineering machinery, processed, tools and implements are also covered. The various sources of farm power their features and specifications are explored. Types of Engines, various parts of the engines, types of ploughs and their functions are also discussed. Other topics covered by the course include; Cultivators and Harrows; Ridgers and Seed Planting; Sprayers and Blowers; Mowing and Harvesting; Post Harvest Technology; Farm Structures; Equipment for Livestock - Feeding mechanisms; Equipment of Livestock - Milking systems, Hatchery equipment: Irrigation and Drainage, and Drainage problems, surface and sub-surface methods of drainage.

### **BBIM 3215 Agribusiness Small Enterprise Management**

**Level:** Third Year Semester Two

Students undertaking this course will be introduced to the concepts and dynamics of small business management. Areas to be covered include: Definitions of small agribusiness, weakness of small business, small business in the global economy. Entrepreneurship: definition and development. New ventures and the business plan, the needs for planning in agribusiness management, evaluating an existing business, franchises, women in franchising. Gender (e.g. participation, constraints of men and women) and small enterprise management. Gender issues in micro-enterprise development. Business location, the varying importance of location, marketing research in business site selection, selecting a business location. Financing a small business enterprise, estimating money needs, equity capital versus debt capital. Marketing research and marketing channels. Pricing, promotion, service and global marketing.

### **BCRS 4102 Plant Pathology**

**Level:** Fourth Year Semester One

The course describes diseases in plants, classification of plant diseases, history of plant pathology, discovery of the role of fungi, control of plant diseases, physiology of plant diseases, genetics of resistance to diseases, bacteria in plant diseases, nematodes in plant diseases, virus in plant diseases, protozoa in plant diseases, mycoplasmas in plant diseases, genetic engineering and plant pathology, significance of plant diseases, kinds and amounts of losses, effects of changes in agricultural methods and in human society on the development and spread of plant diseases, disease and crop production.

### **BCRS 4103 Weed Biology and Ecology**

**Level:** Fourth Year Semester One

The course deals with identification, classification, competition, establishment, reproduction and economic importance of major weed species associated with crops, life cycle of some economically important weeds, with emphasis on more noxious species and ecological factors contributing to their rapid growth and development, weed control methods- physical, mechanical, cultural biological and integrated weed control.

### **BANS 4101 Beef Cattle and Dairy Production & Management**

**Level:** Fourth Year Semester One

The course describes the beef industry worldwide with emphasis on CARICOM. It emphasises areas such as; planning beef, and dairy cattle production; breeding management and role of artificial insemination; establishing a farm; milking equipment; estimating carrying capacity; management of the dairy calf; management and feeding during pregnancy, management and feeding of animals in semi-intensive range and feedlot systems; herd projection and herd health management.

### **BREP 4102 Research Project**

**Level:** Fourth Year Semester One

The course is designed to enhance laboratory skills and the ability of students to identify, analyse and solve problems in scientific research, and their skills in communicating research results. The course emphasises an original research project on a topic in the field of Agriculture in respective specialisations, performed under the supervision of an appointed faculty. The students will be expected to prepare a detailed report on their project work in accordance with the approved guidelines provided by the concerned department of Bugema University.

### **BCRS 4104 Principles of Horticulture**

**Level:** Fourth Year Semester One

The course is designed to provide the basic understanding of the world's fruit and vegetable industries. Emphasis is placed on production regions, biology, soils, nutrition, types of fruits and vegetables, site selection, fruit quality factors, propagation, pruning, pollination, flowering and fruit set, horticultural production practices and career opportunities.

### **BANS 4102 Slaughter and Meat Processing**

**Level:** Fourth Year Semester One

This course describes the value of live animals as a food product and provides a relationship between breeding, feeding, selection and management to changes in the ultimate composition of meat animal products. It also helps to develop technological and manipulative skills in the slaughter and cutting of meat animals and the processing of meat products, and introduces anatomy, muscle structure and contraction, postmortem muscle changes, chemical composition and physical characteristics of carcasses and cuts as determinants of live animal and meat quality. The other areas covered include skills of carcass identification and grading to facilitate descriptions and definitions of quality and cutability in meat animal products and assessment of the nutrient composition of beef, pork and lamb in relation to diet/health and other nutrition concerns.

### **BCRS 4105 Integrated Pest Management**

**Level:** Fourth Year Semester One

This course emphasizes pest management as a decision-making process in a variety of settings, with a focus on collecting pest data via monitoring. Concepts such as economic injury level and action threshold will be discussed, and the concept of pest management strategies and tactics will be explored. Important pesticide issues will also be discussed, including pesticide treadmill, resistance, secondary pest outbreaks, and environmental impact. Examples from local agricultural commodities, horticultural commodities, and livestock will be used throughout the course to illustrate concepts. Students will be required to work in the UCFV greenhouses or barn outside of class. Field trips are mandatory.

### **BANS 4104 Medical and Veterinary Entomology**

**Level:** Third Year Semester One

The course deals with identification, bionomics and control of major Arthropods affecting man and domestic animals. Special emphasis should be placed on Tsetse fly control and biting flies that are nuisance to farm animals and their control. The course will also emphasise zoonotic diseases spread by anthropods.

### **BCRS 4103 Weed Biology and ecology**

**Level:** Fourth Year Semester One

The course deals with identification, classification, competition, establishment, reproduction and economic importance of major weed species associated with crops, life cycle of some economically important weeds, with emphasis on more noxious species and ecological factors contributing to them rapid growth and development, weed control methods- physical, mechanical, cultural biological and integrated weed control.

### **BCRS 4101 Plant Nematodes and Virology**

**Level:** Fourth Year Semester One

Characteristics of plant pathogenic nematodes, morphology, Anatomy, life cycles, ecology, distribution and spread, classification and importance of nematodes as crop pests. Isolation of nematodes, symptoms of nematode attack and inter relation crop of nematodes and other plant pathogens, control of nematodes and use of plant nematodes in biological control. Introduction to virology, plant viruses, properties of viruses, structure and effects on plant physiology.

### **BANS 4105: Skins and Hides Technology**

**Level** Fourth Year Semester One

The course is designed to describe the different technologies used in adding value to hides and skins. It covers processing, preservation techniques, quality control and trade in skins and hides. Different products developed from skins and hides are also discussed.

### **BCRS 4202 Gender and Agriculture**

**Level:** Fourth Year Semester Two

The course is designed to introduce key gender concepts and terminologies with application to agricultural development in developing countries. It describes the relevance of gender to agriculture and agro-related industries. Gender issues in various agricultural sub-sectors (crop production, agribusiness, animal production, Horticultural and food production industry, Land use and management, extension service delivery and agricultural engineering). Gender in agricultural development. Gender approaches to development. Introduction to gender analysis.

### **BPBR 4201 Innovation Technologies in Agriculture**

**Level:** Fourth Year Semester Two

This is a problem solving course. The course largely presents a problem solving approach to enable students apply theoretical knowledge in tackling a specific agricultural problem in their line of specialisation (Plant breeding and Biotechnology/crop science/Soil Science/Animal production or Agribusiness). The course also gives opportunity for students to design their own innovations to solve problems in Agriculture. The students are first introduced to relevant concepts and theories of innovations, innovation process, methods, techniques and approaches. Subsequently, each student is then encouraged to apply the innovation concepts, theories and principle, to come up with their own ideas, designs, models, or initiatives, demonstrate their initiatives, and present the findings for assessment under the guidance of an instructor.

### **BCRS 4203 Plant Disease Diagnosis**

**Level:** Fourth Year Semester Two

The course deals with pathogen or environments, infectious diseases, parasitism and disease development, how pathogens attack plants effects of pathogens on plants' physiological factors and how plants defend their selves against diseases. Then diagnosis of plant diseases, in the field and laboratory with source cons, duration of their biology and control.

### **BANS 4202 Technology of Dairy Products**

**Level:** Fourth Year Semester Two

This course provides a detailed examination of liquid, dehydrated, fractionated and frozen dairy products. The main focus of the course is put on: Primary milk production, overview of milk and dairy products. Technology and quality of liquid milks, cream, milk powders, casein and caseinates, whey processing, ice cream. Introduction to functional properties and applications of milk proteins.

### **BCRS 4204 General Mycology**

**Level:** Fourth Year Semester Two

Mycology is the study of fungi. This course is designed to explore the biology of fungi with special emphasis on their life histories, genetics and evolution, morphology, ecology and its significance in society. This is a practical course that involves collecting fungi sample specimens, growing fungi, Fungi classification and identification and experimentation.

### **BCRS 4205 Fertilizer Technology**

**Level:** Fourth Year Semester Two

The course is designed to cover concepts in soil fertility and productivity. The specific areas include; soil fertility factors; soil physical conditions and fertility; soil fertility evaluation - methods; nutrient deficiency symptoms; plant analysis and total analysis; dris indices; field experimentation; microbiological tests; and soil testing among other techniques. Other important areas covered include: farm manure, urban and industrial wastes; composts; and fertilizer use.

### **BPBR 4201 Innovation Technologies in Agriculture**

**Level:** Fourth Year Semester Two

This is a problem solving course. The course largely presents a problem solving approach to enable students apply theoretical knowledge in tackling some specific agricultural problems in their line of specialisation (Plant breeding and Biotechnology/crop science/Soil Science/Animal production or Agribusiness). The course also gives opportunity for students to design their own innovations to solve problems in Agriculture. The students are first introduced to relevant concepts and theories of innovations, innovation process, methods, techniques

and approaches. Subsequently, each student is then encouraged to apply the innovation concepts, theories and principle, to come up with their own ideas, designs, models, or initiatives, demonstrate their initiatives, and present the findings for assessment under the guidance of an instructor.

### **BECO 1202 Principles of Farm Business Managements**

**Level:** First Year Semester Two

Importance of Farm case study Approach to Agriculture, General Farm Layout and Organization of the Business Farm Set-Up, Scientific Approaches to Studying/ Assessing Individual Farm Cases, The Positive and Normative Approaches to collection of the Farm management information, Firm Enterprises (Investment) Adjustment, Farm Resource identification and Use, Payment for farm resources (land, Labour, Capital), Firm Inventory Analysis and Record Keeping, Financial Systems of farm Accounting, Application of business Analysis Tools to a single Farm, Application of Planning and Budgeting Procedures.

### **BAGC 1202 Introduction to Agricultural Extension**

**Level:** First Year Semester Two

This course provides a general introduction to extension as field of study and professional practice that capitalizes on communication strategies to bring about desirable change in agricultural practice and rural communities. It exposes students to the dynamism associated with the way 'extension' is understood as well as how it evolved. Students will explore the roles, professional attributes of practitioners and, the various approaches to provision of agricultural extension so far tried out in developing countries like Uganda.

### **BAGC 1208 Introduction to Agribusiness Management**

**Level:** First Year Semester Two

The course is designed to equip students with skills so that they can be able to manage farms or seek employment in an agribusiness field. Students will be involved in learning activities that generally prepare them to apply the economic and business principles involved in the organization, operation, and management of the agribusiness farms. Instructional activities include hands-on experiences with applying modern economic and business principles involved in the organization, operation, and management of agricultural businesses including the production and marketing of agricultural produce and services. Students will be introduced to concepts and applications in Agribusiness management, will cover the scope of Agribusiness, roles and objectives of Agribusiness, the agribusiness sector, Components of the agribusiness sector, Relationship between agribusiness with economics and other disciplines, Challenges facing the agribusiness sector, Agribusiness decision making process, Input –output decisions, Revenue and Cost decisions, Break –even Analysis decisions.

### **BBSA 2102 Business / Mercantile Law**

**Level:** Second Year Semester One

This course provides a firm foundation for the students to develop and understand the legal aspects pertaining to the business environment and the level aspect of governing the relationship between parties in business transactions. It also lays foundation for further study of the subject for the student to be grounded in basic concepts, principles, practices and applications. This course introduces the student to the legal and ethical framework of business. Contracts, negotiable instruments, the law of sales, torts, crimes, constitutional law, the Uniform Commercial Code, and the court systems are examined. Upon completion the student should be able to identify legal and ethical issues that arise in business decisions and the laws that apply to them.

### **BAGC 2104 Commodity Marketing** **Second Year Semester One**

The purpose of this course is to provide an introduction to commodity marketing theory, marketing concepts and its evolution from strategic and applied agribusiness perspective in local and global context. Students will develop introductory knowledge and skills in collecting and evaluating market data, distinguishing the characteristics of possible markets, assessing the viability of current operations to take advantage of marketing opportunities and identifying market factors and risks

### **BHRM 2209 Human Resource Management**

**Level:** Second Year Semester Two

Human Resource Management is a specialization within the field of Management that encompasses several functions including the recruitment, selection, and maintenance of a qualified, motivated, and productive workforce. The effective performance of these functions requires understanding and skill in employment law, planning, job analysis, recruitment, selection, orientation, training, employee development, performance appraisal, compensation, benefits, safety, and labour relations.

### **BAGC 3101 Agribusiness Operations Research**

**Level:** Third year Semester One

The origin, nature and impact of operations research. Introduction to theory and practice of mathematical programs including linear programming and network analysis. Equations and graphical presentations of business problems and solutions, linear equations and graphs, slopes, intercepts. Functions: concepts and definitions. Applications of nonlinear functions in business. Linear algebra, solving linear equations with matrix algebra. Business and economic applications of linear algebra. Linear programming: graphical and simplex methods. Applications of linear programming to business problems. Differential calculus, the derivatives and the rules of differentiation, uses of derivatives in business.

### **BAGC 3102 International Trade in Agriculture**

**Level:** Third Year Semester 1

Basis for international trade; Theory of comparative advantage & potential gains in trade; Patterns of trade in Agricultural products, Concepts of free trade; Trade policies & practices of export & import nations; Analysis of effects of different measures of protection & intervention; Commodity agreements; Agricultural trade; Policies of common market areas & the role of international institutions - GATT and UNCTAD; Gender analysis of international trade policies.

### **BAGC 3103 Agricultural Cooperatives & Credit Management**

**Level:** Third Year Semestr One

Ugandan economy prior to the eighties was focused on a farm agricultural production based on households, and supported by community-based cooperatives processing and marketing networks. When country generated into political instability in the eighties the solid economic base was affected by insecurity, loss of property and lack of production. The current government effort is to re-build a viable rural economic base, so as to increase household incomes. What is lacking is a vibrant, well-educated and motivated human resources to disseminate government objectives, through proper managed cooperatives. The course therefore, is designed to provide training in theoretical and practical field of cooperative and credit management. This will enable managers to have the capacity to access modern and up-to-date information so as to improve market efficiencies.

### **BAGC 3104 Agribusiness Small Enterprise Management**

**Level:** Third year Semester One

Students undertaking this course will be introduced to the concepts and dynamics of small business management. Areas to be covered include: Definitions of small agribusiness, weakness of small business, small business in the global economy. Entrepreneurship: definition and development. New ventures and the business plan, the needs for planning in agribusiness management, evaluating an existing business, franchises, women in franchising. Gender (e.g. participation, constraints of men and women) and small enterprise management. Gender issues in micro-enterprise development. Business location, the varying importance of location, marketing research in business site selection, selecting a business location. Financing a small business enterprise, estimating money needs, equity capital versus debt capital. Marketing research and marketing channels. Pricing, promotion, service and global marketing.

### **BAGC 3105 Procurement and Logistics Management**

**Level:** Third Year Semester One

Many agribusiness firms operate in a very competitive environment today. Procurement and logistics management has become of strategic importance to firms by helping them achieve their goals and objectives. This can only be possible when proper procurement and logistics management is understood and applied in organizations. The course unit provides a firm foundation to the understanding of the basic concepts, principles and practices in procurement and logistics management. It covers a broad range of key issues, applications & systems that are vital in the present competitive business environment. This course is practical oriented with emphasis on theory and its practical applications in both public and private sectors. It is geared towards understanding practical specifics and management of the procurement process, logistics and supply chain. Students are empowered to possess integrated skills and knowledge in, inter alia, accounting, marketing, strategic management, e-procurement (procurement software applications), international business, negotiation in purchasing and supply, legal aspects in purchasing and supply chain management.

### **BAGC 3201 Agribusiness Finance and Accounting**

**Level:** Third Year Semester Two

Agricultural Finance addresses financing challenges and opportunities in agribusiness. Finance is the Art and Science of managing money, the continued development and survival of organisations, agribusiness enterprises inclusive, depend to a large extent on their ability to appraise and implement appropriate strategies through sound financial policies and investment. The course provides a concise overview of concepts related to finance and to introduce students to basic tools and techniques used by agribusiness enterprises in their endeavour to manage money efficiently and effectively. The course requires the student to integrate finance and management decision making tools to solve financial and other management problems faced by agricultural firms/farms and agribusiness units

### **BAGC 3202 Agribusiness Environment and Policy**

**Third Year Semester Two**

The course is designed to equip students with skills so that they can be able to manage farms and be acquainted with the environmental policy and regulations from government and company stand point, effects of population growth and composition on agribusiness firms, policy analysis, dealing with business environment and consumer laws as well as macroeconomic policy among others. Students will be introduced to concepts and applications in Agribusiness environment policy, will cover Agribusiness internal



environment business organization, management and structural changes; Agribusiness external environment political / government (legislature, executive and judiciary), political system, pressure groups, legal environment, socio-cultural environment, technological environment, etc.

### **BAGC 3203 Introduction to Management Information Systems**

#### **Third Year Semester Two**

This course takes a decision focus to Management Information Systems and outlines the basic knowledge requirements suitable for designing a good management information system. Major topics covered include; Definition of Management Information system (MIS). Overview of MIS (Value and Output) Problems of MIS. Factors governing the output of MIS. Information, Data and communication, Components of an information system, classifying information and functions, the information model, Formal and informal sources of information. Systems concept, organizations as systems, Organizational structure, information and culture. Information technology and MIS. Information strategy and information management. Database management. Strategic planning. Internet. Information system design, management, maintenance and control. Factors influencing design of a MIS

### **BULA 0002/ 0001 Basic French / Kiswahili Communication Skills**

#### **Level: Third year Semester One**

Course Introduces basic French / Kiswahili orthographic, pronunciation and sentence structure. It also explores audio – visual, conversation and written exercises to develop simple conversation and description.

The Kiswahili alphabet: proper pronunciation; The calendar: days of the week, months, seasons; Telling time; Counting; Greetings; Expressing oneself politely; Asking for/about something/someone; Introducing/describing oneself/others; The verb and description of actions; Simple conversations and narrations.

### **BAGC 1104 Special Science Project (Crop Science)**

#### **Level: First Year Semester One**

This is practical course that equips learners with basic skills in raising a particular crop. It covers important agronomic practices of seedbed preparation, planting, field maintenance, harvesting etc. Learners are to take keen observation at each growth stage of their crop so as to note the challenges they face and state how they mitigate these challenges.

### **BECO 1101 Basic Micro Economics**

#### **Level: First Year Semester One**

This course is designed to develop objective considerations of economic issues and provide information and understanding of how resources are allocated by the pricing mechanism and the determination of output in the various market structures. It also analyses the basic concepts which describe how individuals choose what to consume and how entrepreneurs choose what to produce. Topics to study include theory of consumer choice, theory of price determination, theory of resource allocation, theory of income distribution, effects of market structures, such as perfect competition. Monopolistic competition, monopoly and oligopoly, and the effect of government regulation.

### **BMAT 1103 Mathematics for Agriculturalists**

#### **Level: First Year Semester One**

This course is designed for non-mathematics students. It provides a basis for those subjects that require a fundamental calculus background. Topics include: Further differentiation, further differentiation and partial fractions, solving higher degree



equations, curve sketching, ordinary differential equations, Maclaurins Series, complex numbers and vectors in three dimensions. Functions, limits and continuity, differentiation, rules and theorems of derivatives, inverse functions and applications of differentials to approximation

### **BAGC 1204 Principles of Livestock Production**

**Level:** First Year Semester Two

The course deals with overview of Livestock Production; Origin and domestication of Livestock; Utilization of Livestock; Definition and explanation of common terms in livestock Science; Definition and explanation of common terms in poultry Science; Morphological and production characteristics of breeds/strains/types of beef cattle; Morphological and production characteristics of poultry; System of Management of beef cattle; System of Management of dairy cattle; System of Management of Sheep and goat; System of Management of poultry; System of Management of Swine; Site selection and layout; Water, water supply, air and ventilation; Sanitation and drainage; Principles and practices of disease prevention and control in beef and dairy cattle; Principles and practices of disease prevention and control in poultry; Care and management of livestock during heat, mating gestation, parturition, weaning and drying; Administration of medicaments; Determination of age in Livestock; The functions of food; The constituents of food and dry matter; Digestion and the digestive system of farm livestock; Feeds commonly used in livestock feeding; Terms used in animal nutrition; Feeding dairy cattle for milk production; Ration balancing; Role of pasture in ruminant livestock production; Record keeping in livestock production; Milk herd practices/waste disposal.

### **BRSP 3207 Research Project**

**Level:** Third Year Semester Two

The course is designed to enhance laboratory skills and the ability of students to identify, analyse and solve problems in scientific research, and their skills in communicating research results. The course emphasises an original research project on a topic in the field of Agriculture in respective specialisations, performed under the supervision of an appointed faculty. The students will be expected to prepare a detailed report on their project work in accordance with the approved guidelines provided by the concerned department of Bugema University.

### **BAGC 2107 Farm Management and Agricultural Projects**

**Level:** Second Year Semester One

The course describes Principles of agricultural production and resource use-factor, factor-product, and product-product relationship. Farm-farm costs and revenue theories. Types of farm records and their uses. Farm and planning methods including budgeting, gross margin analysis, and programme planning. Project analysis and planning. Project proposal, monitoring and evaluation.

### **BGCP 3204 Rural Sociology and Agricultural Development**

**Level:** Third Year Semester Two

The course describes the Principles of society, major social institutions, and social change. Emphasis is put on social changes in rural life, social systems; rural organizations, population, and family living with a clear relation on agricultural development in a rural setting.

**BGCP 2102 Farm Power and Machinery****Level:** Second Year Semester One

The course describes the role and application of engineering methods and techniques in agricultural farms. It presents basic terms and concepts, theories and principles of farm engineering. Engineering machinery, processed, tools and implements are also covered. The various sources of farm power their features and specifications are explored. Types of Engines, various parts of the engines, types of ploughs and their functions are also discussed. Other topics covered by the course include; Cultivators and Harrows; Ridgers and Seed Planting; Sprayers and Blowers; Mowing and Harvesting; Post Harvest Technology; Farm Structures; Equipment for Livestock - Feeding mechanisms; Equipment of Livestock - Milking systems, Hatchery equipment: Irrigation and Drainage, and Drainage problems, surface and sub-surface methods of drainage.

**BAGC 3201 Agribusiness Accounting & Finance****Level:** Third Year Semester Two

The course aims at developing further the skills to students in accountability of funds especially in agribusiness units and microfinance institutions and cooperatives to ensure efficiency and effectiveness of the organisations. The course identifies a practical system of farm record keeping with analysis of those records.

**BAGC 1203 Principles of Crop Production****Level:** First Year Semester Two

Evolution of Agriculture; Scope and importance; Relation with other sciences and industries; Definition, history and role of Agronomy in Crop Production; Classification of crops; Classification of crops; Definition and Quality of good seeds; Tillage practices; Importance of legumes in rotation; Principles underlying method of sowing; Planting and transplanting; Principles underlying crop production; Importance of crop production in agriculture; Mixed cropping and crop mixture; Intercropping and multiple cropping; Role of water in crop production; Water requirement of important crops; Principles underlying use of manures; Principles underlying use of fertilizers; Agronomic practices in relation to problem soils; Methods of irrigation; Water resources of Guyana; Efficiency of irrigation; Frequency and levels of irrigation; Definition and importance of drainage; Causes of poor drainage; Methods of drainage.

Laboratory practical and field trips will be carried out in order to support the theoretical aspects of the course.

**BAGC 2301 & 3301 Field Attachment Courses (For all Options)****Level** Second Year Semester Three & Third Year Semester Three

In addition to field and hands-on Agricultural courses this course is specifically designed to provide an additional opportunity for students to gain relevant work experience in a field agricultural environment in different areas of interest. In this course, Students will train for 8 weeks in an agricultural environment which could be an educational institution, research center, government ministry, local government agency, private commercial agricultural company, such as Kakira Sugar works, Mehta Group of companies etc. During this period, the students will be expected to make a significant contribution to a relevant project under the supervision of specific industrial staff and Bugema University personnel. Students are obliged to actively participate in all relevant Industrial Training Programs so as to gain additional skills in different areas of option; i.e. Biotechnology and Plant breeding; Agronomy and soil fertility, Animal Production and Nutrition, Crop Science and Management, and Agribusiness Innovation and Management. At the end of the training, Students will prepare a final report on their placement, and make a presentation of their work. Agriculture student will attend

two internship sessions before graduation, and only one Internship session for students specializing in Agribusiness Innovation and Management.

### **BAGC 2103 Gender in Agricultural Development**

**Level:** Second Year Semester One

The course is designed to introduce key gender concepts and terminologies with application to agricultural development in developing countries. It describes the relevance of gender to agriculture and agro-related industries. Gender issues in various agricultural sub-sectors (crop production, agribusiness, animal production, Horticultural and food production industry, Land use and management, extension service delivery and agricultural engineering). Gender in agricultural development. Gender approaches to development. Introduction to gender analysis.

### **BAGC 1205 Principles of Farm Business Managements**

**Level:** First Year Semester Two

Importance of Farm / Firm case study Approach to Agriculture, General Firm Layout and Organization of the Business Firm Set-Up, Scientific Approaches to Studying/ Assessing Individual Firm Cases, The Positive and Normative Approaches to collection of the Firm management information, Firm Enterprises (Investment) Adjustment, Firm Resource identification and Use, Payment for firm resources (land, Labour, Capital), Firm Inventory Analysis and Record Keeping, Financial Systems of firm Accounting, Application of business Analysis Tools to a single Firm, Application of Planning and Budgeting Procedures.

### **DMGT 3104 Organizational Behavior**

This course helps students to study individuals and their behavior within the context of the organization in a workplace setting. It is an interdisciplinary field that includes sociology, psychology, communication and management.

### **BECO 1202 Macroeconomics I**

The topics covered include an analytical study of income and expenditures according to Neoclassical and Keynesian theories. An examination of inflation, depression, economic growth and unemployment are also included. Modern banking and monetary supply issues are part of the study.

### **BENT 2101 Basic Entrepreneurship**

This course involves the application of business skills and knowledge attained to start small businesses. It seeks to explore various ventures available to entrepreneurs to start new businesses. It involves a study of risks and challenges of entrepreneurs and their role in economic development. It also involves a study of characteristics, problems and personality traits of, and structural support to entrepreneurs, project formulation and feasibility. Topics involved include: role of entrepreneurship and economic development, theories of entrepreneurship, the process of establishing a business, joint ventures, export businesses, preparing business plans, feasibility report preparation sources of funds, planning production, marketing of enterprises, entrepreneurship and public policy, characteristics, nature and problems of small businesses.

## DEPARTMENT OF LIFE AND PHYSICAL SCIENCES

Ag. Head of Department / Cordinator **Bwambale Brian**, MSc (Math Sci.) (Korea), BSc (Ed) (Bugema).

### BACHELOR OF SCIENCE IN BIOCHEMISTRY

#### Introduction

The Bachelor of Science in Biochemistry is a specialized degree program designed to build a strong foundation in the understanding of biochemical properties and actions of biologically important molecules and processes in cells and tissues of living organisms. The program contributes fundamentally to solving of problems in the medical sciences, public health, agriculture, pharmaceutical industry, genetics, cancer biology, environmental pollution control, food industry, and innovation of safe and effective drugs. The goal of this program is to develop indigenous institutional capacity to produce relevant and skilled human resource with expertise and research technical-know-how in Biochemistry and its applications. The program provides an opportunity for students to integrate knowledge in biology and chemistry which prepares them for a broad range of career paths in medical sciences, pharmaceutical industries, food processing, agriculture, biotechnology, environment, cancer biology and research.

#### Rationale

Despite the wide application of Biochemistry knowledge in various fields of development (agriculture, medicine, cancer research, genetic labs, food and drink production, pharmaceutical industries, forensic labs, environmental pollution control, and public health), undergraduate studies in Biochemistry have not gained much attention in Uganda, and East Africa as a region. This has led to shortage of specialized Biochemists since Biochemistry is only studied as a small course segment rather than a full independent academic program. Thus, the creation of this specialized degree in Biochemistry is envisaged to increase on the number of competent cadres in the field of Biochemistry who can handle the increasing challenges in biomedicine, agriculture, biotechnology, public health, among other career applications in Uganda and beyond. In addition, the graduates with a Bachelor of Science in Biochemistry are highly demanded in a range of career fields from private companies, NGOs, and public institutions.

These can seek placements in Cancer research institutes, Food and drink production industries, Chemical manufacturing, hospital laboratories, Forensic labs, Medical research projects, Environmental protection and pollution control agencies, pharmaceutical industries, chemotherapeutic industries, Biomedical labs, Genetic labs and University laboratories, and consultancy firms.

#### Program Objectives

This program is based on the following objectives;

- To produce, in an intellectually challenging learning environment, top quality graduates with skills and knowledge to compete, with advantage, either for opportunities in further education and training in Biochemistry, or for direct entry into scientific careers.
- To provide students with detailed analysis of the recognized core fields of biochemistry in order to prepare them for further specialization in advanced biochemistry at postgraduate levels.
- To allow students to develop the ability to design and execute their own experiments, to analyze experimental data, to draw qualitative and quantitative conclusions from data and to discern whether such conclusions are justified.
- To provide students with transferable skills in use of computers, information and

communication technology, electronic data base searching, numeracy, presentation skills, teamwork and time management skills.

### **Program Learning Outcomes**

On successful completion of this program the graduate will be able to:

- Demonstrate knowledge and understanding of specific theories, concepts and principles in biochemistry and its applications.
- Describe and demonstrate methods for generating, processing, interpreting and presenting information in areas of biochemistry and its applications
- Demonstrate skills required to identify, define and resolve routine problems in biochemistry and its applications
- Make decisions and justify those decisions in relation to the biochemistry tasks including research
- Demonstrate understanding of the topics that constitutes the recognized core of biochemistry knowledge and to allow detailed specialization in advanced topics selected by students.
- Demonstrate the ability to design and execute their own experiments, to analyze experimental data, to draw qualitative and quantitative conclusions from data and to discern whether such conclusions are justified.
- Demonstrate transferable skills in use of computers, information and communication technology, electronic data base searching, numeracy, presentation skills, teamwork and time management skills.

### **General Regulations**

Bugema University general entrance requirements and regulations pertaining to application, registration, examinations and awards shall apply.

### **Entry Requirements in the Program**

Admission to the Program is done in accordance with the Bugema University entry requirements for Bachelors' degrees. A candidate is eligible for admission to the Program on meeting at least one of the following requirements:

- The student must have completed A-level and have a minimum of two principle passes in Science subjects which must be in Biology and Chemistry or Biology and Food & Nutrition/Agriculture, and also passed at the same sitting of O-level.
- Must possess a second-class Diploma in relevant areas of science and from recognized institutions. The relevant areas of science include; Agriculture, Food science, Science education (Biology and Chemistry), Environmental science, Ecology or related studies, from recognized/accredited Institutes.
- Must have passed the Mature Age Entry Examinations for the Bachelor of Science in Biochemistry, from higher institutions of learning recognized by the National Council for Higher Education such as Makerere University, Mbarara University, in Uganda or its equivalent.
- Other international students who do not undertake A-level should have passed mature entry exams or have an equivalent of A-level of Uganda and have a background in Science subjects mainly Biology, Chemistry, Agriculture, Food and Nutrition, Physics, Mathematics, or Geography.

### **Duration of the Programme**

The program is designed for three and four years. The three year caters for students coming from countries that have A 'level certificates. The four year is designed for students who come from countries that do not offer A 'level certificates, for example Kenya and South Sudan.

The duration of the Program is Six (6) semesters of full time study for three year and Eight (8) semesters for four years. Each academic year consists of two (2) semesters. The

length of a semester is seventeen (17) weeks of which fifteen (15) weeks are for teaching, one week for registration and two (2) weeks for examinations.

#### **Other Details of the Program**

- All courses in this program shall be at least Three (3) Credit Units.
- A course that has a practical component within it shall have a maximum of Five (4) Credit Units
- A course that has no Practical Component shall have a Maximum of three (3) Credit Units

#### **Contact Hour**

A Contact Hour shall be equivalent to One (1) Hour of Lecture or Two (2) Hours of Tutorial/Practical/Fieldwork.

#### **Credit Unit**

This is the measure used to reflect the relative weight of a given Credit towards the fulfilment of an appropriate study program required. One Credit Unit shall be One Contact Hour per Week per Semester or a series of Fifteen (15) Contact Hours.

#### **Categorizing Courses**

A course shall be categorized as Core, Elective, Pre-requisite or Audited, and the Level of content of a particular Course has to match the Credit Units allocated to the Course.

- **Major / Core Courses** shall be the courses which are essential to a Bachelor of Science in Biochemistry, Academic Program and which gives the said academic program its unique features. Everyone offering this particular academic program must pass all the major courses with a grade not less than C-
- **General Course** includes courses for general information in health, religion, language, social and vocational. This program requires that all students pass at least of 12 credit hours (3 credit hours for each of the general information areas mentioned).
- **Cognate Courses** are the fundamental and required supporting courses of the program offered in other related Science academic programs.
- **An Elective Course** shall be offered in order to broaden an academic program or to allow for specialization. It is chosen from a given group of Courses largely at the convenience of the student.
- **An Audited Course** shall be a course offered by a student for which a Credit/Credit Unit shall not be awarded.
- **Prerequisite Course** shall be a course offered in preparation for a higher-level course in the same area of study. When a student fails a pre-requisite course, he/she shall not be allowed to take the higher-level course requiring the pre-requisite course.
- **Semester load for Undergraduate Academic Program.** The normal semester load for undergraduate academic program shall range from eighteen (18) credit units to twenty-three (23) credit units.
- **Internship:** All students pursuing Bachelor of Science in Biochemistry, in all its specialties will be required to go for an internship period for three months, in the summer period of second year. The purpose of this internship is to expose students to the practical knowledge in the fields that enhances their research skills and expertise in the major fields of Biochemistry.

**BACHELOR OF SCIENCE IN BIOCHEMISTRY****Credit Requirement Summary**

<b>Course Category</b>	<b>Credits</b>
Major Concentration	99
Cognate Requirements	21
General Courses Requirements	16
Electives	12
Project	6
Industrial Attachment	16
<b>Total</b>	<b>170</b>

**Major Concentration in Biochemistry**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BIOC 1101	Chem Biomolecules & Metabolic Pathways	30	30	30	45	3
BIOC 1102	Molecular Genetics	30	30	30	45	3
BIOC 1201	Enzymology	30	30	30	45	3
BIOC 1202	Toxicology	30	30	30	45	3
BIOC 1203	Cell Biology, Molecular & Bio Membranes	30	30	30	45	3
BIOC 1204	Cell Signaling	30	30	30	45	3
BIOC 1205	Experimental Biology & Lab Science	30	30	30	45	3
BIOC 1206	Structural Biochemistry	30	30	30	45	3
BIOC 2101	Bioinformatics	30	30	30	45	3
BIOC 2102	Biophysical & Biochemical Methods	30	30	30	45	3
BIOC 2103	Environmental Biochemistry & Toxicology	30	30	30	45	3
BIOC 2104	Biomolecules	30	30	30	45	3
BIOC 2105	Immunology	30	30	30	45	4
BIOC 2106	Molecular Biology	30	30	30	45	3
BIOC 2107	Medical Biochemistry and Genetics	30	30	30	45	3
BIOC 2201	Biostatistics	30	30	30	45	3
BIOC 2202	Cancer Biology & Molecular Oncology	30	30	30	45	3
BIOC 2203	Biochemical Analysis Techniques	30	30	30	45	3
BIOC 2204	Biochemistry of the Central Nervous System	30	30	30	45	3
BIOC 2205	Forensic Genetics & Molecular Biology	30	30	30	45	3
BIOC 2206	Chemical Safety & Toxicology	30	30	30	45	3
BIOC 3101	Protein Science	30	30	30	45	3
BIOC 3102	Endocrinology	30	30	30	45	3
BIOC 3103	Cell Metabolism and Control	30	30	30	60	4
BIOC 3104	Principles of Infectious Diseases	30	30	30	45	3
BIOC 3105	Industrial Biochemistry	30	30	30	45	3
BIOC 3106	Food science and Nutrition	30	30	30	45	3
BIOC 3201	Protein Assembly, Dynamics & Function	30	30	30	45	3
BIOC 3202	Biochemical Basis of Disease	30	30	30	45	3
BIOC 3203	Clinical Drug Development	30	30	30	45	3
BIOC 3204	Microbiology	30	30	30	45	3



<b>Cognates</b>						<b>21</b>	
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BCHM	1101	General Chemistry	30	30	30	45	3
BCHM	1201	Chemistry of Biological Processes	30	30	30	45	3
BRSB	2101	Data Analysis Skills & Technical Writing	30	30	30	45	3
BRSB	2202	Practical aspects Cell & Molecular biology	0	30	30	45	3
BIPH	3102	Pharmacology and therapeutics	30	30	30	45	3
BENV	3201	Bioethics, Issues in Science & Biomedicine	60	30	00	45	3
BIMB	3202	Advanced Molecular Biology	30	30	30	45	3
<b>Electives</b>						<b>12</b>	
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BPRS	2208	Parasitology	30	30	30	45	3
BIOC	2207	Genetics of Organisms	30	30	30	45	3
BIOC	2208	Metabolic Pathways & Advanced Metabolism	30	30	30	45	3
BIOC	3107	Human-Microbe Interactions & Env't	30	30	30	45	3
BIOT	3101	Biotechnology	30	30	30	45	3
BIOC	3108	Cells & Tissues in Human disease	30	30	30	45	3
BIOC	3109	Molecular Basis of Brain Disorders	60	30	00	45	3
BIOC	3205	Gene Regulation & Disease	30	30	30	45	3
BIOC	3206	Animal Physiology	30	30	30	45	3
BIOC	3207	Hematology	30	30	30	45	3
BIOC	3208	Plant Genetic Conservation & Biodiversity	30	30	30	45	3
BIOC	3209	Virology	30	30	30	45	3
BIOC	3110	Body Systems	30	30	30	45	3
BIOC	3111	Sensory, Nervous Cells & Membrane Excit	30	30	30	45	3
BIOC	3112	Principles of Developmental Biology	30	30	30	45	3
BIOC	3113	Quantitative Food Analysis Techniques	30	30	30	45	3
<b>Project</b>						<b>06</b>	
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BREP	4102	Research Project	00	0	90	45	3
BREM	2201	Research Methods	30	30	30	45	3
<b>Industrial Training/Internship</b>						<b>06</b>	
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BINT	2301	Internship/Industrial Training I	00	00	90	45	3
BINT	3302	Internship/Industrial Training II	00	00	90	45	3
<b>General Education</b>						<b>16</b>	
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECL	1101	Introduction to Writing Skills	60	30	00	45	3
GECC	1101	Fundamentals of Computers & Applications	45	00	45	60	4
GECR	1101	Christian Beliefs	30	30	00	45	3
GECH	1101	Health Principles	30	30	00	45	3
GECS	1201	Issues in Science & Religion	60	30	00	45	3
<b>Total</b>							<b>157</b>



## BACHELOR OF SCIENCE IN BIOCHEMISTRY PROGRAMME MATRIX PER SEMESTER FOR THE THREE- YEAR PROGRAM,

### Recommended Schedule for the Three-year Bachelor of Science in Biochemistry

#### First Year: Semester 1

Code	Name	LH	TH	PH	CH	CU
BIOC 1101	Chem Biomolecules & Metabolic Pathways	30	30	30	45	3
BCHM 1101	General Chemistry	30	30	30	45	3
BIOC 1102	Molecular Genetics	30	30	30	45	3
GECL 1101	Introduction to Writing Skills	60	30	00	45	3
GECC 1101	Fundamentals of Computers & Applications	45	00	45	60	4
GECR 1101	Christian Beliefs	30	30	00	45	3
GECH 1101	Health Principles	30	30	00	45	3

#### First Year Semester One

Code	Name	LH	TH	PH	CH	CU
BCHM 1201	Chemistry of Biological Processes	30	30	30	45	3
BIOC 1201	Enzymology	30	30	30	45	3
BIOC 1202	Toxicology	30	30	30	45	3
BIOC 1203	Cell Biology, Molecular & Bio Membranes	30	30	30	45	3
BIOC 1204	Cell Signaling	30	30	30	45	3
BIOC 1205	Experimental Biology & Lab Science	30	30	30	45	3
BIOC 1206	Structural Biochemistry	30	30	30	45	3
GECS 1201	Issues in Science & Religion	60	30	00	45	3
<b>Total Credits</b>						<b>24</b>

#### Second Year Semester I

Code	Name	LH	TH	PH	CH	CU
BIOC 2101	Bioinformatics	30	30	30	45	3
BRSH 2101	Data Analysis Skills & Technical Writing	30	30	30	45	3
BIOC 2102	Biophysical & Biochemical Methods	30	30	30	45	3
BIOC 2103	Environmental Biochemistry & Toxicology	30	30	30	45	3
BIOC 2104	Biomolecules	30	30	30	45	3
BIOC 2105	Immunology	30	30	30	45	4
BIOC 2106	Molecular Biology	30	30	30	45	3
BIOC 2107	Medical Biochemistry and Genetics	30	30	30	45	3
<b>Total Credits</b>						<b>24</b>

#### Second Year: Semester II

Code	Name	LH	TH	PH	CH	CU
BREM 2201	Research Methods	30	30	30	45	3
BIOC 2201	Biostatistics	30	30	30	45	3
BRSH 2202	Practical aspects Cell & Molecular biology	0	30	30	45	3
BIOC 2202	Cancer Biology and Molecular Oncology	30	30	30	45	3
BIOC 2203	Biochemical Analysis Techniques	30	30	30	45	3

BIOC	2204	Biochemistry of the Central Nervous System	30	30	30	45	3
BIOC	2205	Forensic Genetics & Molecular Biology	30	30	30	45	3
BIOC	2206	Chemical Safety & Toxicology	30	30	30	45	3
<b>Total Credit:</b>							<b>24</b>

**ELECTIVES (3 Credits)**

Code	Name	LH	TH	PH	CH	CU	
BPRS	2208	Parasitology	30	30	30	45	3
BIOC	2207	Genetics of Organisms	30	30	30	45	3
BIOC	2208	Metabolic Pathways & Advanced Metabolism	30	30	30	45	3

**Summer Period**

Code	Name	LH	TH	PH	CH	CU	
BINT	2301	Internship/Industrial Training I	00	00	90	45	3
BREP	4102	Research Project	00	0	90	45	3
<b>Total Credit:</b>							<b>06</b>

**Third Year: Semester I**

Code	Name	LH	TH	PH	CH	CU	
BIOC	3101	Protein Science	30	30	30	45	3
BIOC	3102	Endocrinology	30	30	30	45	3
BIPH	3102	Pharmacology and therapeutics	30	30	30	45	3
BIOC	3103	Cell Metabolism and Control	30	30	30	60	4
BIOC	3104	Principles of Infectious Diseases	30	30	30	45	3
BIOC	3105	Industrial Biochemistry	30	30	30	45	3
BIOC	3106	Food science and Nutrition	30	30	30	45	3

**Elective (3 Credits One course only)**

Code	Name	LH	TH	PH	CH	CU	
BIOC	3107	Human-Microbe Interactions & Environment	30	30	30	45	3
BIOT	3101	Biotechnology	30	30	30	45	3
BIOC	3108	Cells & Tissues in Human disease	30	30	30	45	3
BIOC	3109	Molecular Basis of Brain Disorders	60	30	00	45	3
<b>Total Credits</b>							<b>25</b>

**Third Year: Semester II**

Code	Name	LH	TH	PH	CH	CU	
BENV	3201	Bioethics, Issues in Science & Biomedicine	60	30	00	45	3
BIOC	3201	Protein Assembly, Dynamics & Function	30	30	30	45	3
BIOC	3202	Biochemical Basis of Disease	30	30	30	45	3
BIOC	3203	Clinical Drug Development	30	30	30	45	3
BIOC	3204	Microbiology	30	30	30	45	3
BIMB	3202	Advanced Molecular Biology	30	30	30	45	3

**Electives (3 Credits)**

Code	Name	LH	TH	PH	CH	CU
BIOC 3205	Gene Regulation & Disease	30	30	30	45	3
BIOC 3206	Animal Physiology	30	30	30	45	3
BIOC 3207	Hematology	30	30	30	45	3
BIOC 3208	Plant Genetic Conservation & Biodiversity	30	30	30	45	3
BIOC 3209	Virology	30	30	30	45	3

**Electives (3 Credits)**

Code	Name	LH	TH	PH	CH	CU
BIOC 3110	Body Systems	30	30	30	45	3
BIOC 3111	Sensory, Nervous Cells & Membrane Excit	30	30	30	45	3
BIOC 3112	Principles of Developmental Biology	30	30	30	45	3
BIOC 3113	Quantitative Food Analysis Techniques	30	30	30	45	3

**Total Credits****24****Summer Period**

Code	Name	LH	TH	PH	CH	CU
BINT 3302	Internship/Industrial Training II	00	00	90	45	3

**Total Credit:****05**

## BACHELOR OF SCIENCE IN STATISTICS

### Credit Summary for Graduation

Course Category	Credits
Major concentration in Statistics	93
Cognates	33
Electives	03
Project	06
Industrial Training/Internship	06
General courses	19
<b>Total</b>	<b>160</b>

### Major concentration in Statistics

Code	Name	LH	TH	PH	CH	CU	93
BSTA 1101	Statistical Packages (Excel, SPSS, EPI data)	30	30	00	45	3	
BSTA 1104	Introduction to Decision Sciences	60	30	00	45	3	
BSTA 1206	Statistical Methods & Data Analysis	30	30	30	45	3	
BSTA 1208	Experimental Designs	60	30	00	45	3	
BSTA 1207	Statistical Modeling & Analysis	60	30	00	45	3	
BSTA 2102	Programming and Data Mgt	30	15	45	45	3	
BSTA 2104	Introduction to Decision Sciences	60	30	00	45	3	
BSTA 2105	Applied Regression Analysis	30	30	30	45	3	
BSTA 2106	Sample Surveys and Methodology	30	30	30	45	3	
BSTA 2108	Pattern Recognition & Prediction in Statistics	60	30	00	45	3	
BSTA 2202	Mathematical Models - Decision Making	60	30	00	45	3	
BSTA 2206	Statistical Methods in Biomedical Sciences	45	30	15	45	3	
BSTA 2207	Statistical Packages Stage III	45	30	15	45	3	
BSTA 2208	Mathematical & Empirical Reasoning	60	30	00	45	3	
BSTA 3101	Dynamical Systems	60	30	00	45	3	
BSTA 3102	Scientific Computing	15	15	60	45	3	
BSTA 3104	Simulation Analysis and Design	30	30	30	45	3	
BSTA 3105	Deterministic Models in Operations Research	30	15	45	45	3	
BSTA 3106	Stochastic Models & Processes in Operations Research	60	30	00	45	3	
BSTA 3107	Financial Mathematics & Fluid Dynamics	60	30	00	45	3	
BSTA 3201	Statistical Methods in Social Sciences	60	30	00	45	3	
BSTA 3202	Biostatistics and Demography	30	30	30	45	3	
BSTA 3203	Development and Planning Statistics	60	30	00	45	3	
BSTA 3204	Labor and Transport Statistics	60	30	00	45	3	
BSTA 3206	Socio-Economic Statistics	45	30	15	45	3	
BSTA 3207	Statistical Packages Stage IV	15	15	60	45	3	
BSTA 2107	Applied Multivariate Analysis	45	30	15	45	3	
BSTA 3103	Time Series Analysis	45	15	30	45	3	
BSTA 3205	Introduction to Machine Learning	30	30	30	45	3	
BSTA 3205	Introduction to Machine Learning	30	30	30	45	3	
BSTA 1204	Modeling and Optimization	60	30	00	45	3	
<b>Total</b>							<b>93</b>

<b>Cognates</b>							<b>33</b>
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSTA	1103	Numerical Methods	60	30	00	45	3
BSTA	1105	Calculus	60	30	00	45	3
BSTA	1203	Differential Equations	15	15	60	45	3
BSTA	1202	Multivariate Calculus	60	30	00	45	3
BSTA	1205	Probability & Mathematical Statistics	60	30	00	45	3
BECO	1101	Microeconomics I	60	30	00	45	3
BSTA	2203	Numerical Analysis	60	30	00	45	3
BSTA	2204	Applied Probability	60	30	00	45	3
BECO	2205	Macroeconomics I	60	30	00	45	3
BACC	2105	Taxation I	60	30	00	45	3
BSTA	2101	Probability Models	60	30	00	45	3
<b>Total</b>							<b>33</b>

<b>General</b>							<b>(19)</b>
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECH	1101	Christian Beliefs	60	30	00	45	3
GECH	1101	Health principles	60	30	00	45	3
GECC	1101	Funds of computer & its application	60	30	00	45	3
GECS	1201	Issues in Science and Religion	60	30	00	45	3
GECH	1101	Introduction to Writing Skills	60	30	00	45	3

<b>Choose One</b>							
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GESA	1201	Philosophy of Christian Education	30	30	00	45	3
GECA	1202	Principles of Sociology	30	30	00	45	3
<b>Total</b>							<b>19</b>

<b>Internship (6 Credits)</b>							
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BINT	2301	Industrial Training I/ Internship I	00	00	90	45	3
BINT	3302	Industrial Training I/ Internship II	00	00	90	45	3
<b>Total</b>							<b>6</b>

<b>Research (6 Credits)</b>							<b>06</b>
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BREM	2201	Research Methods	60	30	00	45	3
BREP	4101	Research Project	00	00	90	45	3
<b>Total</b>							<b>9</b>

<b>Electives (3 Credits)</b>							<b>06</b>
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSTA	3208	Decision Models for Business	60	30	00	45	3
BSTA	3209	Statistical Methods in Financial Risk Mgt	60	30	00	45	3
BSTA	3210	Actuarial Modeling	60	30	00	45	3

**The Recommended Schedule for the three year BSc. (Hons) in Statistics is presented as follows:**

#### **First Year Semester 1**

<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSTA	1103	Numerical Methods	60	30	00	45	3
BSTA	1104	Introduction to Decision Sciences	60	30	00	45	3
BSTA	1105	Calculus	60	30	00	45	3

GECR	1101	Christian Beliefs	60	30	00	45	3
GECH	1101	Health principles	60	30	00	45	3
GECC	1101	Funds of computer & its application	60	30	00	45	3
BSTA	1101	Statistical Packages (Excel, SPSS, EPI data)	60	30	00	45	3
GECH	1101	Introduction to Writing Skills	60	30	00	45	3
<b>Total Credits</b>							<b>25</b>

**First Year Semester II**

Code	Title	LH	TH	PH	CH	CU	
GECS	1201	Issues in Science and Religion	60	30	00	45	3
BSTA	1202	Multivariate Calculus	60	30	00	45	3
BSTA	1203	Differential Equations	60	30	00	45	3
BSTA	1204	Modeling and Optimization	60	30	00	45	3
BSTA	1205	Probability & Mathematical Statistics	60	30	00	45	3
BSTA	1206	Statistical Methods & Data Analysis	60	30	00	45	3
BSTA	1208	Experimental Designs	60	30	00	45	3
BSTA	1207	Statistical Modeling & Analysis	60	30	00	45	3
<b>Total Credit</b>							<b>24</b>

**Summer Period**

Code	Name	LH	TH	PH	CH	CU	
BINT	2301	Industrial Training I/ Internship I	00	00	90	45	3

**Second Year Semester I**

Code	Name	LH	TH	PH	CH	CU	
BSTA	2101	Probability Models	60	30	00	45	3
BSTA	2102	Programming and Data Mgt	30	15	45	45	3
BECO	1101	Microeconomics I	60	30	00	45	3
BSTA	2104	Introduction to Decision Sciences	60	30	00	45	3
BSTA	2105	Applied Regression Analysis	30	30	30	45	3
BSTA	2106	Sample Surveys and Methodology	30	30	30	45	3
BSTA	2107	Applied Multivariate Analysis	45	30	15	45	3
BSTA	2108	Pattern Recognition & Prediction in Statistics	60	30	00	45	3
<b>Total Credits</b>							<b>24</b>

**Second Year Semester II**

Code	Name	LH	TH	PH	CH	CU	
BREM	2201	Research Methods	60	30	00	45	3
BSTA	2202	Mathematical Models Decision Making	60	30	00	45	3
BSTA	2203	Numerical Analysis	60	30	00	45	3
BSTA	2204	Applied Probability	60	30	00	45	3
BECO	2205	Macroeconomics I	60	30	00	45	3
BSTA	2206	Statistical Methods in Biomedical Sciences	45	30	15	45	3
BSTA	2207	Statistical Packages Stage III	45	30	15	45	3
BSTA	2208	Mathematical & Empirical Reasoning	60	30	00	45	3
<b>Total Credit</b>							<b>24</b>

**Summer Period**

Code	Name	LH	TH	PH	CH	CU	
BINT	3302	Industrial Training II/ Internship II	00	00	90	45	3
<b>Total Credit</b>							<b>3</b>

**Third Year  
Semester I**

Code	Name	LH	TH	PH	CH	CU
BSTA 3101	Dynamical Systems	60	30	00	45	3
BSTA 3102	Scientific Computing	15	15	60	45	3
BSTA 3103	Time Series Analysis	45	15	30	45	3
BSTA 3104	Simulation Analysis and Design	30	30	30	45	3
BSTA 3105	Deterministic Models in Operations Research	30	15	45	45	3
BSTA 3106	Stochastic Models & Processes in Operations Research	60	30	00	45	3

**03****Elective (3 Credits)**

Code	Name	LH	TH	PH	CH	CU
BSTA 3107	Financial Mathematics & Fluid Dynamics	60	30	00	45	3
BACC 2105	Taxation I	60	30	00	45	3

**Total Credit****24****Third Year  
Semester II**

Code	Name	LH	TH	PH	CH	CU
BSTA 3201	Statistical Methods in Social Sciences	60	30	00	45	3
BSTA 3202	Biostatistics and Demography	30	30	30	45	3
BSTA 3203	Development and Planning Statistics	60	30	00	45	3
BSTA 3204	Labor and Transport Statistics	60	30	00	45	3
BSTA 3205	Introduction to Machine Learning	30	30	30	45	3
BSTA 3206	Socio-Economic Statistics	45	30	15	45	3
BSTA 3207	Statistical Packages Stage IV	15	15	60	45	3

**Electives (3 Credits)**

Code	Name	LH	TH	PH	CH	CU
BSTA 3208	Decision Models for Business	60	30	00	45	3
BSTA 3209	Statistical Methods in Financial Risk Mgt	60	30	00	45	3
BSTA 3210	Actuarial Modeling	60	30	00	45	3

**Total Credit****24****Summer Period**

Code	Name	LH	TH	PH	CH	CU
BREP 4102	Research Project	00	00	90	45	3

**Total Credits:****03**

## BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

The recommended Course Schedule for the three-year Bachelor of Environmental Science with major Concentrations in Ecology and Biodiversity Conservation, Environment and Natural Resources Management,

### BACHELOR OF ENVIRONMENTAL SCIENCE (WITH OPTIONS)

#### Credit Summary for graduation

Course Category	Credits
Major concentration in Statistics	90
Cognates	33
Electives	03
Research	06
Industrial Training/Internship	06
General courses	19
<b>Total</b>	<b>162</b>

#### Major Concentration In Environmental Sciences

##### Ecology & Biodiversity Conservation

Code	Name	LH	TH	PH	CH	CU
BEVS 1102	Biodiversity	30	30	30	45	3
BEVS 1101	Intro. to Environmental Science	30	30	30	45	3
BEVS 1201	Intro to Biophysical Environ	30	30	30	45	3
BEVS 1202	Climate Change & Adaptation	45	30	15	45	3
BEVS 1203	Natural Chemicals in Environment	30	30	30	45	3
BSOC 2101	Communication Skill	60	15	15	45	3
BEVS 2101	Limnology of Waters	30	30	30	45	3
BEVS 2102	Pest Management	30	30	30	45	3
BEVS 2103	Environ Monitoring & Assessment	30	30	30	45	3
BEVS 2104	Principles of Env'tal Toxicology	30	30	30	45	3
BEVS 2105	Ground Water Hydrology	30	30	30	45	3
BSBI 2101	Principles of Microbiology	30	30	30	45	3
BEVS 2201	Plants & Environmental Pollution	30	30	30	45	3
BRES 2201	Biostatistics & Experimental Design	30	30	30	45	3
BEVS 2202	Environmental Water Chemistry	30	30	30	45	3
BEVS 2203	Chemical Ecology, Principles	30	30	30	45	3
BEVS 2205	GIS & Spatial Analysis	30	30	30	45	3
BREM 2201	Research Methods	45	30	15	45	3
BEVS 3101	Environmental Entomology	30	30	30	45	3
BEVS 3102	Air Quality Mgt & Pollution Control	30	30	30	45	3
BEVS 3103	Agro-Chemicals & Environmental Safety	30	30	30	45	3
BEVS 3104	Environment & Social Impact Assessment	30	30	30	45	3
BEVS 3101	Human Population and Development	30	30	30	45	3
BEVS 3201	Environmental Soil Science	30	30	30	45	3
BIOC 3202	Molecular & Cell Plant-Microbe Interactions	30	30	30	45	3
BEVS 3203	Environmental Risk Assessment	30	30	30	45	3
BREP 3102	Research Projects	00	00	90	45	3
BSOC 3201	Issues in Ecosystems Mgt & Biodiversity	60	15	15	45	3



BECS	3201	Animal Physiology & Adaptation	30	30	30	45	3
BEVS	3204	Geological Resources & Environment	45	30	15	45	3
<b>Total</b>							<b>90</b>

### Environment & Natural Resources Management 93

Code	Name	LH	TH	PH	CH	CU	
BEVS	1102	Biodiversity	30	30	30	45	3
BEVS	1101	Introduction to Environmental Sci	30	30	30	45	3
BEVS	1201	Intro to Biophysical Environ	30	30	30	45	3
BEVS	1202	Climate Change & Adaptation	45	30	15	45	3
BEVS	1203	Natural Chemicals in Environment	30	30	30	45	3
BSOC	2101	Comm Skills	60	15	15	45	3
BECS	2103	Mgmt of the Biophysical Envirnt	45	30	15	45	3
BEWC	2101	Wildlife Conservation &Mgmt	30	15	15	45	3
BGEO	2101	Geomorphology	45	45	15	45	3
BBUS	2101	Resource Planning Innovation	60	30	15	45	3
BEVS	2109	GIS & Spatial Analysis	30	15	45	45	3
BEMM	2201	Mgt of Protected Areas	30	15	45	45	3
BEVS	2209	Environmental Resources I	30	15	45	45	3
BPOL	2201	Environmental Governance	60	30	00	45	3
BECS	2201	Water borne Disease Ecology	30	15	45	45	3
BRES	2201	Biostatistics & Experimental design	30	30	30	45	3
BRES	2202	Environmental Independent Stud	15	15	60	45	3
BREM	2201	Research Methods	45	15	30	45	3
BAGS	3101	Project Evaluation and Analysis	60	30	00	45	3
BEVS	3112	Environmental Resources	45	30	15	45	3
BEVS	3107	Climatic Processes &Biophysical En	45	30	15	45	3
BEVS	3109	Forestry and Biodiversity Mgmt	30	15	45	45	3
BEVS	3101	Human population Dev	30	30	30	45	3
BEVS	3111	Environment & Social IA	30	30	30	45	3
BEWS	3201	Wetlands Resource Management	30	15	45	45	3
BIOP	3201	Plant Health, Protection	30	30	30	45	3
BSOC	3201	Issues in Ecosystems Mgmt	60	15	15	45	3
BEVS	3206	Biodiversity Valuation and trade	45	30	15	45	3
BEVS	3204	Geological Resources	45	30	15	45	3
BRES	3201	Research Project	00	00	90	45	3
BGEO	3201	Fluvial Processes and N R	45	30	15	45	3
<b>Total</b>							<b>93</b>

### Cognates (5 Courses) 15

Code	Name	LH	TH	PH	CH	CU	
**BCON	1201	Intro. Environ Econ, Law & Pol	60	30	00	45	3
**BCON	1202	Economic Growth &Environ Qual	60	30	00	45	3
**BCON	2103	Analysis of Natural Resource Pol	60	30	00	45	3
**BCON	3101	Sustainable Land Utilization	45	30	15	45	3

### Electives (choose only 1 course) 03

Code	Name	LH	TH	PH	CH	CU	
BEVS	3105	Methods in Ground Water Assessments	15	15	60	45	3
BGEO	3101	Meteorology and Climatology	45	30	15	45	3
BEVS	3106	Ecological Techniques	30	15	45	45	3
BEVS	3107	Climatic Processes & Biophy Environ	45	30	15	45	3

<b>Research</b>						<b>06</b>
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BREP	4102	Research Project	00	00	90	45 3
BREM	2201	Research Methods	00	00	90	45 3

<b>Industrial Training/Internship</b>						<b>06</b>
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BINT	2301	Internship/Industrial Training I	00	00	90	90 3
BINT	3302	Internship/Industrial Training II	00	00	90	90 3

<b>*General Education (6 Courses Having Code Starting Ge)</b>						<b>18</b>
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
*GECC	1101	Funds of Computers and its Applications	45	00	45	45 4
*GECH	1101	Health Principles	30	30	30	30 3
*GECL	1101	Introduction to Writing Skills	60	30	00	45 3
*GECS	1201	Issue in Science& Religion	30	30	30	45 3
*GECR	1101	Christian Beliefs	30	30	30	45 3
		Vocational	15	30	30	30 2

### Credits For Graduation

Major concentration credits and Total credits for graduation are as follows:

- Ecology & Biodiversity Conservation =90 Credits + 40 Total=130 credits for graduation
- Environ & Natural Resources Mgt = 93 Credits + 40 Total=133 credits for graduation

### Course Schedule For The 3 Years

#### First Year Semester I

<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
BEVS	1102	Biodiversity	30	30	30	45 3
BEVS	1101	Introduction to Environmental Science	30	30	30	45 3
*GECC	1101	Funds of Computers and its Applications	45	00	45	45 4
*GECH	1101	Health Principles	30	30	30	30 3
*GECL	1101	Introduction to Writing Skills	60	30	00	45 3
*GECR	1101	Christian Beliefs	30	30	30	45 3
		Vocational				2

#### First Year, Semester II

<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
GECS	1201	Issue in Science& Religion	30	30	30	45 3
BCHM	1201	Environmental Chemistry	30	30	30	45 3
BCON	1201	Introd. Environ Econ, Law & Pol	60	30	00	45 3
BEVS	1201	Introd to Biophysical Environ	30	30	30	45 3
BEVS	1202	Climate Change & Adaptation	45	30	15	45 3
BCON	1202	Economic Growth & Environ Qual	60	30	00	45 3
BEVS	1203	Natural Chemicals in Environment	30	30	30	45 3
<b>Total</b>						<b>21</b>

**Concentration in Ecology and Biodiversity Conservation****Second Year Semester I**

Code	Name	LH	TH	PH	CH	CU
BSOC 2101	Communication Skill	60	15	15	45	3
BEVS 2101	Limnology of Waters	30	30	30	45	3
BEVS 2102	Pest Management	30	30	30	45	3
BEVS 2103	Envirnt Monitoring & Assessment	30	30	30	45	3
BEVS 2104	Principles of Env'tal Toxicology	30	30	30	45	3
BEVS 2105	Ground Water Hydrology	30	30	30	45	3
BSBI 2101	Principles of Microbiology	30	30	30	45	3
<b>Total Credits</b>						<b>21</b>

**Second Year Semester II**

Code	Name	LH	TH	PH	CH	CU
BEVS 2201	Plants & Environmental Pollution	30	30	30	45	3
BRES 2201	Biostatistics & Experimental Design	30	30	30	45	3
BEVS 2202	Environmental Water Chemistry	30	30	30	45	3
BEVS 2203	Chemical Ecology, Principles	30	30	30	45	3
BEVS 2205	GIS & Spatial Analysis	30	30	30	45	3
BREM 2201	Research Methods	45	30	15	45	3
<b>Total Credit:</b>						<b>18</b>

**Summer Period**

Code	Name	LH	TH	PH	CH	CU
BINT 2301	Internship/Industrial Training I	00	00	90	90	3
<b>Total</b>						<b>03</b>

**Third Year Semester I**

Code	Name	LH	TH	PH	CH	CU
BEVS 3101	Environmental Entomology	30	30	30	45	3
BEVS 3102	Air Quality Mgt & Pollution Control	30	30	30	45	3
BEVS 3103	Agro-Chemicals & Environmental Safety	30	30	30	45	3
BEVS 3104	Environment & Social Impact Assessment	30	30	30	45	3
BEVS 3101	Human Population and Development	30	30	30	45	3
<b>Total</b>						<b>18</b>

**Elective (3 Credits)**

Code	Name	LH	TH	PH	CH	CU
BEVS 3105	Methods in Ground Water Assessments	15	15	60	45	3
BGEO 3101	Meteorology and Climatology	45	30	15	45	3
BEVS 3106	Ecological Techniques	30	15	45	45	3
BEVS 3107	Climatic Processes & Biophy Envirnt	45	30	15	45	3
<b>Total Credits</b>						<b>21</b>

**Third Year Semester II**

Code	Name	LH	TH	PH	CH	CU
BEVS 3201	Environmental Soil Science	30	30	30	45	3
BIOC 3202	Molecular & Cell Plant-Microbe Interactions	30	30	30	45	3

BEVS	3203	Environmental Risk Assessment	30	30	30	45	3
BREP	4102	Research Projects	00	00	90	45	3
BSOC	3201	Issues in Ecosys. Mgt & Biodiversity	60	15	15	45	3
BECS	3201	Animal Physiology & Adaptation	30	30	30	45	3
BEVS	3204	Geological Resources & Environment	45	30	15	45	3
<b>Total</b>							<b>21</b>

**Summer Period**

Code	Name	LH	TH	PH	CH	CU
BINT 3302	Internship/Industrial Training II	00	00	90	90	3
<b>Total</b>						<b>03</b>

**Environment and Natural Resources Management****Second Year Semester I**

Code	Name	LH	TH	PH	CH	CU
BSOC 2101	Comm Skills	60	15	15	45	3
BECS 2103	Mgmt of the Biophysical Envirnt	45	30	15	45	3
BEWC 2101	Wildlife Conservation &Mgmt	30	15	45	45	3
BGEO 2101	Geomorphology	45	30	00	45	3
BBUS 2101	Resource Planning Innov	60	30	15	45	3
BEVS 2109	GIS & Spatial Analysis	30	15	45	45	3
BCON 2103	Analysis of Natural Resource Pol	60	30	00	45	3
<b>Total Credits</b>						<b>21</b>

**Second Year Semester II**

Code	Name	LH	TH	PH	CH	CU
BEMM 2201	Mgt of Protected Areas	30	15	45	45	3
BEVS 2209	Environmental Resources I	30	15	45	45	3
BPOL 2201	Environmental Governance	60	30	00	45	3
BECS 2201	Water borne Disease Ecology	30	15	45	45	3
BRES 2201	Biostatistics & Experimental design	30	30	30	45	3
BRES 2202	Environmental Independent Stud	15	15	60	45	3
BREM 2201	Research Methods	45	15	30	45	3
<b>Total Credits</b>						<b>21</b>

**Summer Period**

Code	Name	LH	TH	PH	CH	CU
BINT 2301	Industrial Training I/Internship	00	00	45	90	3
<b>Total Credits</b>						<b>03</b>

**Year Three Semester I**

Code	Name	LH	TH	PH	CH	CU
BAGS 3101	Project Evaluation and Analysis	60	30	00	45	3
BCON 3101	Sustainable Land Utilization	45	30	15	45	3
BEVS 3112	Environmental Resources	45	30	15	45	3
BEVS 3107	Climatic Processes & Biophysical En	45	30	15	45	3
BEVS 3109	Forestry and Biodiversity Mgmt	30	15	45	45	3
BEVS 3101	Human population Dev't	30	30	30	45	3
BEVS 3111	Environment & Social IA	30	30	30	45	3
<b>Total Credits</b>						<b>21</b>

**Third Year Semester II**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BEWS 3201	Wetlands Resource Management	30	15	45	45	3
BIOP 3201	Plant Health, Protection	30	30	30	45	3
BSOC 3201	Issues in Ecosystems Mgmt	60	15	15	45	3
BEVS 3206	Biodiversity Valuation and trade	45	30	15	45	3
BEVS 3204	Geological Resources	45	30	15	45	3
BREP 4102	Research Project	00	00	90	45	3
BGEO 3201	Fluvial Processes and N R	45	30	15	45	3
<b>Total Credits</b>						<b>21</b>

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BINT 3302	Internship/Industrial Training II	00	00	90	90	3
<b>Total</b>						<b>03</b>

## DIPLOMA IN BIOMEDICAL ENGINEERING TECHNOLOGY

### Program Description

This is a two year specialized Diploma in Biomedical Engineering & Lab Technology (DBET), which is designed to prepare students for employment as Mid-career Biomedical Engineers. The program blends life sciences with engineering concepts to provide students with capability to develop creative innovations in the biomedical industry. The graduates will be competent to work in a broad range of Biomedical engineering and laboratory fields, electronics, pharmaceutical industries, companies, biomedical equipment supply companies and industries, medical engineering firms, medical consultancies and self-employment. The program also adds a competitive advantage to our graduates by providing an opportunity for a six month local or international internship at a university, hospital, Multinational Company or research institute in the area of biomedical engineering technology.

During the two years of study, the students acquire a strong foundation in engineering topics covering electrical, electronic and mechanical engineering, and a broad overview of biomedical engineering technology. Sequentially, students are equipped with skills and techniques in cell and molecular biology, human anatomy and physiological systems alongside medical instrumentation, electronic design prototyping skills, clinical engineering, and exposure to a diversity of biomedical equipments. At all levels of the program, practical and theoretical aspects are integrated in the courses to give essential industrial and medical skills for graduates. Such skills will enhance the competitiveness of graduates for work opportunities in hospitals, laboratories, research centers, universities, and pharmaceutical industries and business enterprises. In addition, well planned internships with hospitals, multinational corporations, and research institutes, pharmaceutical industries, and advanced medical laboratories will add a considerable advantage for graduates to develop well desired skills for a diversity of job opportunities as Bioengineers; Biomedical engineers; or Engineering technologist.

### Program Objectives

- To produce intermediate graduates with skills and knowledge in Biomedical Engineering Technology
- To introduce students to a broad range of topics, skills and techniques that constitutes the recognized core of Biomedical Engineering Technology.
- To provide students with transferable skills in use of computers, information and communication technology and management skills.
- To provide students with skills and techniques in undertaking modern biomedical engineering procedures in hospitals, pharmaceutical industries, and various research fields medical biochemistry and medicine among other applications
- To provide students with skills and techniques in handling, repair, maintenance of basic and modern equipments in teaching, research and quality control laboratories
- To equip students with techniques to participate in general implementation of scientific and technological developments in medical research, safety and quality control.
- To provide skills in planning and administering of routine analysis and safety regulations in teaching, research and industrial environment.
- To prepare students for further education in biomedical engineering technology, medicine and other related studies.
- To provide students with skills in innovating self-employment opportunities in different areas of science and engineering technology.

### Program Learning Outcomes

- On successful completion of this programme the graduate will be able to:
- Demonstrate the application of skills and knowledge in solving routine problems in Biomedical Engineering

- Apply transferable skills to different areas of science and technology
- Demonstrate use of skills and techniques in modern biomedical engineering procedures in hospitals, and other applications
- Efficiently handle, maintain and repair basic and modern biomedical equipments
- Implement technological developments in medical research, safety and quality control.
- Plan and administer routine safety regulations in biomedical and industrial environments.
- Demonstrate capability for further education in biomedical engineering and other related studies.
- Innovate self-employment opportunities in areas of biomedical engineering, electronics, or business

### **General Regulations**

Bugema University general entrance requirements and regulations pertaining to application, registration, examinations and awards shall apply.

### **Entry requirements in the program**

- Admission to the Programme is done in accordance with the Bugema University entry requirements for diploma programs. A candidate is eligible for admission to the Programme on meeting the following requirements:
- Have a Uganda Certificate of Education (UCE) with at least 5 passes in science subjects
- Have completed Uganda Advanced Certificate of Education (UACE) with 1 principle pass in Either Physics, Biology, or Mathematics and 2 subsidiary passes in science subjects obtained at the same sitting or its equivalent.
- Must possess a certificate in relevant areas of Science and from recognized institutions. However, the certificate should be relevant to the subject area.
- Must have passed the Mature Age Entry Examinations recognized by NCHE in Uganda or its equivalent.
- Other international students who do not undertake Advanced-level should have an equivalent of A-level of Uganda with a good background in Science subjects.

### **Duration of the programme**

The Diploma in Biomedical Engineering Technology (DBET) will last for two years. For students who originate from countries without A-Level education, the program will last for two years, after successful completion of the bridging program for science programs. The total duration of the Programme is four (4) semesters of full time study. Each academic year consists of two (2) semesters. The length of a semester is seventeen (17) weeks of which fourteen (14) weeks are for teaching, one week for registration and two (2) weeks for examinations.

## DIPLOMA IN BIOMEDICAL ENGINEERING TECHNOLOGY (DBET)

### Program Credit Requirement Summary

Course Category	Credits
Concentration in Biomedical Engineering Technology	54
Cognates	18
Internship	06
Research	06
General Education	16
<b>Total</b>	<b>100</b>

### Concentration in Biomedical Engineering Technology 54

Code	Name	LH	TH	PH	CH	CU
DBET 1101	Biomedical Eng & Lab Equipments	30	15	45	45	3
DBET 1107	Engineering Drawing Skills	30	15	45	45	3
DPLT 1201	Refrigeration & Air Conditioning	45	45	00	45	3
DBET 1202	Electronics Principles & Practice	30	15	45	45	3
DBET 1203	Biomedical Anatomy and Physiology	30	15	45	45	3
DBET 1204	Bio-Instrumentation and Analysis	30	15	45	45	3
DBET 1205	Computer Architecture & Configuration	30	15	45	45	3
DBET 2101	Intro to Biomedical Signal Processing	45	15	45	45	3
DBET 2102	Digital Electronics	30	15	45	45	3
DBET 2103	Biomedical Devices Technology I	30	15	45	45	3
DBET 2105	Mechanical Workshop Skills	30	15	45	45	3
DBET 2107	Electronic & Electrical Engineering	30	15	45	45	3
DBET 2201	Electronics Principles and Practice III	30	15	45	45	3
DBET 2202	Medical Device Standards	30	15	45	45	3
DBET 2204	Biomedical Devices Technology II	30	15	45	45	3
DBET 2206	Medical Imaging Systems	30	15	45	45	3
DBET 2207	Electronic Image Displays	30	15	45	45	3
DBET 2106	Biochemistry & Instrumentation Analysis	30	15	45	45	3

### Cognates 18

Code	Name	LH	TH	PH	CH	CU
DBET 1102	Microbiology & Infection Control	30	15	45	45	3
DBET 2104	Digital Systems and Microprocessors	30	15	45	45	3
DFBS 2208	Entrepreneurship & Innovation Skills	60	30	00	45	3
DBET 2203	Computer Networks & Data Comm	30	15	45	45	3
DBET 2109	Patient Care & Nursing Skills	30	15	45	45	3
DBET 2205	Contracts and Financial Mgt	45	45	00	45	3

### Internship 06

Code	Name	LH	TH	PH	CH	CU
DINT 1301	Internship I (Industrial Training)	00	0	90	45	3
DINT 2301	Internship II (Industrial Training)	00	0	90	45	3

### Research 06

Code	Name	LH	TH	PH	CH	CU
DBET 2302	Biomedical Engineering Technology Project	00	0	90	45	3
DRSH 1201	Statistics & Research Methods	30	15	45	45	3
<b>Total</b>						<b>06</b>



<b>General Education</b>						<b>16</b>
<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECH 1101	Health principles	30	30	0	45	3
GECR 1101	Christian Beliefs	30	30	0	45	3
GECC 1101	Funds of computer & its application	45	0	45	60	4
GECL 1101	Introduction to writing skills	30	30	0	45	3
GECS 1201	Issues in Science and Religion	30	15	45	45	3

**The recommended Course Schedule for the Two Year Diploma in Biomedical Engineering Technology, (DBET) is presented as follows:**

### First Year Semester I

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECR 1101	Christian Beliefs	30	30	0	45	3
GECH 1101	Health principles	30	30	0	45	3
GECC 1101	Funds of computer & its application	45	0	45	60	4
DBET 1101	Biomedical Eng & Lab Equipments	30	15	45	45	3
GECL 1101	Introduction to writing skills	30	30	0	45	3
DBET 1102	Microbiology & Infection Control	30	15	45	45	3
DBET 1107	Engineering Drawing Skills	30	15	45	45	3
<b>Total Credits</b>						<b>22</b>

### First Year Semester II

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECS 1201	Issues in Science and Religion	30	15	45	45	3
DPLT 1201	Refrigeration & Air Conditioning	45	45	00	45	3
DBET 1202	Electronics Principles & Practice	30	15	45	45	3
DBET 1203	Biomedical Anatomy and Physiology	30	15	45	45	3
DBET 1204	Bio-Instrumentation and Analysis	30	15	45	45	3
DBET 1205	Computer Architecture & Configuration	30	15	45	45	3
DRSH 1201	Statistics & Research Methods	30	15	45	45	3
<b>Total Credits</b>						<b>21</b>

### Summer Period

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
DINT 1301	Internship I (Industrial Training)	00	0	90	45	3

### Second Year Semester I

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
DBET 2101	Intro to Biomedical Signal Processing	45	15	45	45	3
DBET 2102	Digital Electronics	30	15	45	45	3
DBET 2103	Biomedical Devices Technology I	30	15	45	45	3
DBET 2104	Digital Systems and Microprocessors	30	15	45	45	3
DBET 2105	Mechanical Workshop Skills	30	15	45	45	3
DBET 2106	Biochemistry & Instrumentation Analysis	30	15	45	45	3
DBET 2107	Electronic & Electrical Engineering	30	15	45	45	3
DBET 2109	Patient Care & Nursing Skills	30	15	45	45	3
<b>Total Credits</b>						<b>24</b>

### Second Year Semester II

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
DBET 2201	Electronics Principles & Practice III	30	15	45	45	3
DBET 2202	Medical Device Standards	30	15	45	45	3

DBET	2203	Computer Networks & Data Comm	30	15	45	45	3
DBET	2204	Biomedical Devices Technology II	30	15	45	45	3
DBET	2205	Contracts and Financial Management	45	45	00	45	3
DBET	2206	Medical Imaging Systems	30	15	45	45	3
DBET	2207	Electronic Image Displays	30	15	45	45	3
DFBS	2208	Entrepreneurship & Innovation Skills	60	30	00	45	3
DBET	2302	Biomedical Engineering Technology Project	00	0	90	45	3
<b>Total Credits</b>							<b>24</b>

**Summer**

Code	Name	LH	TH	PH	CH	CU
DINT 2301	Internship II (Industrial Training)	00	0	90	45	3
<b>Total Credits</b>						<b>03</b>

## DIPLOMA IN SCIENCE LABORATORY TECHNOLOGY

### Program Description

This is a two year Diploma in Science Laboratory Technology (DSLTL), which is designed to prepare students for employment as science laboratory technicians. The graduates will be competent to work in a broad range of science laboratory fields, including chemistry, biological, biotechnology, pharmaceutical, chemical processing, industrial and food analysis through tailored areas of specializations. The program also adds a competitive advantage to graduates in the field of laboratory technology due to its broad perspective in science fields such as biological, chemical, and physical sciences. During the two years of study, students will be given a strong foundation in laboratory analysis, technology, and instrumentation.

Sequentially, students will be first introduced to basic sciences, math and modern techniques and procedures for lab analysis. Later in the program, a considerable lab exposure will be provided with relevant theoretical background to prepare students for a hands-on experience in a wide range of science laboratory settings. Emphasis in the program is put on sound principles for performance of standard laboratory practices, procedures, and techniques for biological, chemical and physical analyses. At all levels of the program, practical and theoretical aspects are integrated in the courses to give essential industrial skills for graduates. Such skills will enhance the competitive capability of graduates for work opportunities in Education laboratories, research centers, universities, and industries and business enterprises. Many job opportunities for the graduates are available in education laboratories, industrial laboratories, research process and quality control laboratories or product development.

### Program Objectives

1. To produce intermediate graduates with skills and knowledge in science laboratory technology
2. To introduce students to a broad range of topics, skills and techniques that constitutes the recognized core of Science Laboratory Technology.
3. To provide students with transferable skills in use of computers, information and communication technology and management skills.
4. To provide students with skills and techniques in undertaking modern chemical, biological, and physical analytical procedures in various research fields like agriculture, biochemistry, medicine among other applications
5. To provide students with skills and techniques in handling, maintenance of basic and modern equipment in teaching, research and quality control laboratories.
6. To equip students with techniques to participate in general implementation of sustainable scientific and technological developments in teaching, research and quality control.
7. To provide skills in planning and administering of routine analysis and safety regulations in teaching, research and industrial environment.
8. To prepare students for further education in biomedical technology and science and other related studies.
9. To provide students with skills in the preparation of plant and animal materials for microscopic examination, identification and in some cases storage and display
10. To provide students with techniques in the study of plants and animals in the laboratory and field

### **Program Learning Outcomes**

On successful completion of this programme the graduate will be able to:

- demonstrate skills and knowledge in modern science laboratory technology.
- apply skills and techniques in core areas of science Laboratory Technology.
- demonstrate skills and techniques in undertaking modern chemical, biological, and physical analytical procedures in fields of science applications
- handle and maintain basic and modern equipment in teaching, research and quality control laboratories
- implement sustainable scientific and technological developments in teaching, research and quality control.
- plan and administer routine analysis and safety regulations in teaching, research and industrial environment.
- pursue further education in more specialized areas of science laboratory technology; such as biomedical laboratory technology, Laboratory technology in Biology, chemistry, physics and other related studies.
- prepare plant and animal materials for microscopic examination, identification and storage and display
- demonstrate an awareness of current issues of concern to society and an appreciation of the safety issues involved in the area of Science Laboratory technology,

### **General Regulations**

Bugema University general entrance requirements and regulations pertaining to application, registration, examinations and awards shall apply.

### **Entry Requirements In The Program**

- Admission to the Programme is done in accordance with the Bugema University entry requirements for diploma programs. A candidate is eligible for admission to the Programme on meeting the following requirements:
- Have a Uganda Certificate of Education (UCE) with at least 5 passes
- Have completed Uganda Advanced Certificate of Education (UACE) with 1 principle pass in Biology, Chemistry, Food and Nutrition, Agriculture or Physics, and 2 subsidiary passes in any science subjects. The subjects must have been passed at the same sitting
- Must possess a certificate in relevant areas of Science and from recognized institutions. However, the certificate should be relevant to the subject area.
- Must have passed the Mature Age Entry Examinations recognized by NCHE in Uganda or its equivalent.
- Other international students who do not undertake Advanced-level should have an equivalent of A-level of Uganda with a good background in Science subjects. Or Must successfully pass the Bugema University Bridging Program for Sciences

**DIPLOMA IN SCIENCE LABORATORY TECHNOLOGY****Program Credit Requirement Summary**

General Education	22
Concentration in Science Laboratory Technology	45
Cognates	12
Industrial Training/Internship	06
Research	03
<b>Total</b>	<b>88</b>

**General Courses**

Code	Name	LH	TH	PH	CH	CU
GE CR 1101	Christian Briefs	45	00	00	45	3
GE CH 1101	Health Principles	45	00	00	45	3
GE CC 1101	Fundamentals of Computer & applications	30	20	40	60	4
GE CH 1101	Introduction to writing skills	30	30	00	45	3
GE CS 1201	Issues in science and religion	45	00	00	45	3

**Choose one**

GE CA 1202	Principles of sociology	30	30	00	45	3
GE SA 1201	Philosophy of Christian education	30	30	00	45	3

**Electives(2 Credit Hours)**

GE CV 1201	Motor vehicle driving	30	30	30	45	3
GE CV 1202	Tailoring	30	00	30	45	3
GE CV 1203	Catering	30	00	30	45	3
GE CV 1204	Music applications	30	10	30	45	3
<b>Total credits</b>						<b>25</b>

**Concentration in Science Laboratory Technology – Biological**

Code	Name	LH	TH	PH	CH	CU
DSL T 1101	Intro. to lab science & technology	30	00	30	45	3
DSL T 1104	Fundamentals in biology	20	00	20	30	3
DSL T 1201	Lab. & workplace Mgt practices	45	00	00	45	3
DSL T 1203	Basic Electronics	30	10	20	45	3
DSL T 1204	Quantitative instrumental analysis	30	00	30	45	3
DSL T 1202	Industrial Laboratory Skills & safety	30	10	20	45	3
DSL T 1204	Qualitative instrumental analysis	30	00	30	45	3
DBLT 2101	Techniques in Bacteriology	30	00	30	45	3
DBLT 2102	Principles of Biotechnology	30	10	20	45	3
DBLT 2103	Techniques in Enzymology & Cytology	30	15	45	45	3
DBLT 2104	Lab techniques & innovations in biology	30	15	45	45	3
DBLT 2105	Instrumental Methods of Analysis	30	15	45	45	3
DBLT 2106	Biochemistry & laboratory applications	30	15	45	45	3
DBLT 2203	Tech Anatomy & Physiology Experiments	30	00	30	45	3
DBLT 2205	Techniques in Molecular Biology	30	00	30	45	3
<b>Total credits</b>						<b>45</b>

**Cognate courses**

Code	Name	LH	TH	PH	CH	CU
DSL T 1102	Integrated algebra and calculus	30	30	00	45	3
GECS 1202	Statistics	45	00	00	45	3
DURE 2116	Research Methods and biostatistics	30	45	00	45	3
DCL T 2204	Techniques in Quantitative Food Analysis	30	00	30	45	3

**Total credits****12****Industrial training/Internship**

Code	Name	LH	TH	PH	CH	CU
DINT 1301	Internship (Industrial Training) I	00	00	90	45	3
DINT 2301	Internship (Industrial Training) II	00	00	90	45	3

**Research**

Code	Name	LH	TH	PH	CH	CU
DSL T 2206	Research Project	30	00	30	45	3

**Concentration in Science Laboratory Technology – Chemistry**

Code	Name	LH	TH	PH	CH	CU
DSL T 1101	Intro. to lab science & technology	30	00	30	45	3
DSL T 1103	Basic Inorganic Chemistry	30	00	30	45	3
DSL T 1201	Lab. & workplace Mgt practices	45	00	00	45	3
DSL T 1203	Basic Electronics	30	10	20	45	3
DSL T 1204	Quatitative instrumental analysis	30	00	30	45	3
DCL T 2101	General Physical Chemistry I	30	15	45	45	3
DCL T 2102	Analytical Chemistry	30	15	45	45	3
DCL T 2103	Organic Chemistry I	30	15	45	45	3
DCL T 2104	Instrumental Methods of Analysis I	30	15	45	45	3
DCL T 2105	Inorganic Chemistry	30	15	45	45	3
DCL T 2106	Biochemistry & Lab. Applications	30	15	45	45	3
DCL T 2201	General Physical Chemistry II	30	15	45	45	3
DCL T 2202	Heat and Thermodynamics	30	15	45	45	3
DCL T 2203	Organic Chemistry II	30	15	45	45	3
DCL T 2204	Instrumental Methods of Analysis II	30	15	45	45	3

**Total credits****36****Cognate courses**

Code	Name	LH	TH	PH	CH	CU
DSL T 1102	Integrated algebra and calculus	30	30	00	45	3
GECS 1202	Statistics	45	00	00	45	3
DURE 2116	Research Methods and biostatistics	30	45	00	45	3
DCL T 2205	Techniques in Quantitative Food Analysis	30	15	45	45	3

**Total credits****12****Industrial training/Internship**

Code	Name	LH	TH	PH	CH	CU
DINT 1301	Internship (Industrial Training) I	00	00	90	45	3
DINT 2301	Internship (Industrial Training) II	00	00	90	45	3

**Research**

Code	Name	LH	TH	PH	CH	CU
DSLTT 2206	Research Project	30	00	30	45	3

**Concentration in Science Laboratory technology – Physics**

Code	Name	LH	TH	PH	CH	CU
DSLTT 1101	Intro. to lab science & technology	30	00	30	45	3
DSLTT 1105	Basic Physics	30	15	45	45	3
DSLTT 1201	Lab. & workplace Mgt practices	45	00	00	45	3
DSLTT 1203	Basic Electronics	30	10	20	45	3
DSLTT 1204	Quantitative instrumental analysis	30	00	30	45	3
DPLTT 2101	Electricity and Magnetism	30	15	45	45	3
DPLTT 2102	Optics and Waves	30	15	45	45	3
DPLTT 2103	Electronic & Innovation Techniques	30	15	45	45	3
DPLTT 2105	Radiation Physics	30	15	45	45	3
DPLTT 2106	Thermodynamics	30	15	45	45	3
DBETT 2201	Biomedic Eng & medical lab equipment	30	10	30	45	3
DPLTT 2201	Refrigeration and air conditioning	30	10	30	45	3
DPLTT 2202	Mechanics	30	10	30	45	3
DPLTT 2203	Industrial physics	30	10	30	45	3
DPLTT 2204	Material science	30	10	30	45	3

**Total credits****36****Cognate courses**

Code	Name	LH	TH	PH	CH	CU
DSLTT 1102	Integrated algebra and calculus	30	30	00	45	3
GECS 1202	Statistics	45	00	00	45	3
DURE 2116	Research Methods and biostatistics	30	45	00	45	3
DBETT 2201	Biomedic Eng & medical lab equipment	30	10	30	45	3

**Total credits****12****Industrial training/Internship**

Code	Name	LH	TH	PH	CH	CU
DINT 1301	Internship (Industrial Training) I	00	00	90	45	3
DINT 2301	Internship (Industrial Training) II	00	00	90	45	3

**Research**

Code	Name	LH	TH	PH	CH	CU
DSLTT 2206	Research Project	30	00	30	45	3

## PROGRAMME MATRIX PER SEMESTER FOR THE TWO YEAR DIPLOMA IN SCIENCE LABORATORY TECHNOLOGY PROGRAM

The recommended Course Schedule for the Two-Year Diploma in Science Laboratory Technology, (DSLTT) is presented as follows:

**Year 1 Semester I**

Code	Name	LH	TH	PH	CH	CU
GECC 1101	Christian Briefs	45	00	00	45	3
GECH 1101	Health Principles	45	00	00	45	3

GECC	1101	Fundamentals of Computer & applications	30	20	40	60	4
GECH	1101	Introduction to writing skills	30	30	00	45	3
DSLTL	1101	Intro. to lab science & technology	30	00	30	45	3
DSLTL	1102	Integrated algebra and calculus	30	00	00	30	2

**Electives (Choose one)**

Code	Name	LH	TH	PH	CH	CU	
DSLTL	1103	Basic Inorganic Chemistry	30	00	30	45	3
DSLTL	1104	Fundamentals in biology	20	00	20	30	3
DSLTL	1105	Basic Physics	30	15	45	45	3
<b>Total Credits</b>						<b>21</b>	

**First Year 1****Semester 2**

Code	Name	LH	TH	PH	CH	CU	
GECS	1202	Statistics	45	00	00	45	3
GECA	1202	Principles of sociology	45	00	00	45	3
GECS	1201	Issues in science and religion	45	00	00	45	3
DSLTL	1201	Lab. & workplace Mgt practices	45	00	00	45	3
DSLTL	1202	Industrial Laboratory Skills & safety	30	10	20	45	3
DSLTL	1203	Basic Electronics	30	10	20	45	3
DSLTL	1204	Qualitative instrumental analysis	30	00	30	45	3

**Electives (Choose one)**

Code	Name	LH	TH	PH	CH	CU	
GECV	1201	Motor vehicle driving	30	30	30	45	3
GECV	1202	Tailoring	30	00	30	45	3
GECV	1203	Catering	30	00	30	45	3
GECV	1204	Music applications	30	10	30	45	3
<b>Total Credit units</b>						<b>24</b>	

**Summer**

Code	Name	LH	TH	PH	CH	CU	
DINT	1301	Internship (Industrial Training) I	00	00	90	45	3

**Concentration in Biological and Industrial Laboratory Technology****Second Year****Semester 1**

Code	Name	LH	TH	PH	CH	CU	
DBLT	2101	Techniques in Bacteriology	30	00	30	45	3
DBLT	2102	Principles of Biotechnology	30	10	20	45	3
DBLT	2103	Techniques in Enzymology & Cytology	30	15	45	45	3
DBLT	2104	Lab techniques & innovations in biology	30	15	45	45	3
DBLT	2105	Instrumental Methods of Analysis	30	15	45	45	3
DBLT	2106	Biochemistry & lab. applications	30	15	45	45	3
DURE	2116	Research Methods and biostatistics	30	45	00	45	3
<b>Total Credit Units</b>						<b>21</b>	

**Second Year****Semester 2**

Code	Name	LH	TH	PH	CH	CU	
DBLT	2201	Techniques in Mycology	30	00	30	45	3



DBLT	2202	Techniques Plant Agric & Biotechnology	30	00	30	45	3
DBLT	2203	Tech Anatomy & Physiology Experiments	30	00	30	45	3
DCLT	2204	Techniques in Quantitative Food Analysis	30	15	45	45	3
DBLT	2205	Techniques in Molecular Biology	30	00	30	45	3
DBLT	2206	Research Project	30	00	30	45	3
<b>Total Credit Units</b>							<b>18</b>

**Summer****Semester 2**

Code	Name	LH	TH	PH	CH	CU
DINT 2301	Internship (Industrial Training)	00	00	90	45	3

**Concentration in Chemistry and Industrial Laboratory Applications****Second Year****Semester 1**

Code	Name	LH	TH	PH	CH	CU	
DCLT 2101	General Physical Chemistry I	30	15	45	45	3	
DCLT 2102	Analytical Chemistry	30	15	45	45	3	
DCLT 2103	Organic Chemistry I	30	15	45	45	3	
DCLT 2104	Instrumental Methods of Analysis I	30	15	45	45	3	
DCLT 2105	Inorganic Chemistry	30	15	45	45	3	
DCLT 2106	Biochemistry & Lab. Applications	30	15	45	45	3	
DURE 2116	Research Methods and biostatistics	45	45	00	45	3	
<b>Total credits</b>							<b>21</b>

**Second Year****Semester 2**

Code	Name	LH	TH	PH	CH	CU	
DCLT 2201	General Physical Chemistry II	30	15	45	45	3	
DCLT 2202	Heat and Thermodynamics	30	15	45	45	3	
DCLT 2203	Organic Chemistry II	30	15	45	45	3	
DCLT 2204	Instrumental Methods of Analysis II	30	15	45	45	3	
DCLT 2205	Techniques in Quantitative Food Analysis	30	15	45	45	3	
DSL T 2206	Research Project	00	00	90	45	3	
<b>Total credits</b>							<b>18</b>

**Summer****Semester 2**

Code	Name	LH	TH	PH	CH	CU
DINT 2301	Internship (Industrial Training)	00	00	90	45	3

**Concentration in Physics and Industrial Laboratory Applications (silenced)****Second Year****Semester I**

Code	Name	LH	TH	PH	CH	CU	
DPLT 2101	Electricity and Magnetism	30	15	45	45	3	
DPLT 2102	Optics and Waves	30	15	45	45	3	
DPLT 2103	Electronic & Innovation Techniques	30	15	45	45	3	
DPLT 2105	Radiation Physics	30	15	45	45	3	
DCLT 2104	Instrumental Methods of Analysis	30	15	45	45	3	
DPLT 2106	Thermodynamics	30	15	45	45	3	
DURE 2116	Research Methods & Biostatistics	45	45	00	45	3	
<b>Total credits</b>							<b>21</b>

<b>Second Year</b>		<b>Semester II</b>				
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
DBET	2201	Biomedic Eng & medical lab equipment	30	10	30	45 3
DPLT	2201	Refrigeration and air conditioning	30	10	30	45 3
DPLT	2202	Mechanics	30	10	30	45 3
DPLT	2203	Industrial physics	30	10	30	45 3
DPLT	2204	Material science	30	10	30	45 3
DSLIT	2205	Research project	00	00	90	45 3
<b>Total Credits</b>						<b>18</b>

## Summer Period

<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH CU</b>
DINT	2301	Internship (Industrial Training) II	00	00	90	45 3

## COURSE DESCRIPTIONS

### **BCHM 1101 General Chemistry**

**Level:** First Year Semester One

The course will help students to appreciate the importance of chemistry in daily life, and the role of physical and chemical reactions in determining the quality of our environment. A general survey of reactive and non-reactive elements in the atmosphere and the impacts of such reactions on environmental processes in both terrestrial and aquatic environment will be done. In addition, introductory topics in general chemistry will be dealt with.

### **BIOC 1101 Chemistry of Biomolecules and Metabolic Pathways**

**Level:** First Year Semester One

The course is designed to provide a basis for understanding the chemistry of biomolecules and metabolic pathways of importance in clinical practice and research. Emphasis in this course will be put on Biochemical processes. Water. Non-covalent bonding, pH. Acids, bases and buffers. Amino acids. Protein structures. Enzyme catalysis. Enzyme kinetics. Lipids: structure and function. Carbohydrates, their structure and function. General overview and strategy of metabolism. Glycolysis. Minor pathways of carbohydrate metabolism. Gluconeogenesis. Glycogen metabolism. Regulation of carbohydrate metabolism. Pentose phosphate pathway. Citric acid cycle. Electron transport chain. Oxidative phosphorylation. Fatty acid metabolism. Ketone bodies. Nitrogen metabolism. Integration metabolism. Relevant case studies.

### **BIOC 1102 Molecular Genetics**

**Level:** First Year Semester One

The course deals with the nature and structure and functioning of important biological molecules including DNA and RNA. The students are also introduced to genetic engineering and its applications, and ethical concerns about its use in our society.

### **BIOC 1103 Molecular and Cell Biology**

**Level:** First Year Semester One

This course is designed to introduce different interactions between molecules and systems in a living cell. Individual functioning of cells, functioning of cells as part of tissues, and organism, processes that determine cell communication, growth, division, interaction with other cells, and death of cells. The abnormal cell processes during cancer will also be discussed.

### **BCHM 1201 Chemistry of Biological Processes**

**Level:** First Year Semester Two

This is a basic course in biochemistry that includes fundamental organic chemistry, biological information transfer processes, energy conservation metabolism, and special topics such as membrane transport and the biochemistry of biological processes.

### **BIOC 1201 Enzymology**

**Level:** First Year Semester Two

This course begins with the Extraction and purification of enzymes, Enzyme activity, Factors affecting enzyme activity, enzyme inhibition. Enzyme kinetics: Multisubstrate enzyme mechanisms (Chance mechanisms, Ping-pong mechanisms, Random sequential and ordered Bi-Bi mechanisms). Mechanisms in families of enzymes (Serine proteases, Dehydrogenases, Carboxypeptidases, Lysozyme), Multisite and Allosteric enzymes (Non-cooperative sites, Cooperative binding in allosteric enzymes).

**BIOC 1202 Toxicology****Level:** First Year Semester Two

This course is designed to provide an insight into the molecular mechanisms by which toxic molecules cause cellular damage and death. The course creates an understanding of the ways in which exposure to xenobiotics can cause adverse health effects, of how the toxic properties of certain compounds can be exploited for clinical and/or research benefit, and of the challenges faced by the pharmaceutical industry in the development of novel, safe therapeutic drugs. The mechanisms of apoptosis, concept of toxicity exploitation for beneficial reasons and the physiological and pathophysiological mechanisms by which reactive oxygen species are generated are also covered in this course.

**BIOC 1203 Cell Biology and Bio Membranes****Level:** First Year Semester Two

The course is designed to study cell biology and the biochemistry of biological membranes and essential life processes disrupted in disease. The topics to be covered in this course include; structure and functioning of cell organelles, importance of bio membranes, organization of bio membranes, membrane proteins, structure, lipid composition, classification of integral lipids, membrane permeability, ATP powered pumps, ion channels, structure and properties of cytoskeletal elements; vesicular trafficking; secretory pathways and endocytic pathways, protein quality control, purification of organelles, membranes, sub-cellular fractionation of cells by differential centrifugation; purification of membrane proteins; Exploring essential cellular functions; biochemistry of cell cycle, cell survival and apoptosis, cell motility and differentiation, role of key signalling pathways, significance of disruption of essential cellular processes for diseases like cancer, neurodegeneration, cardiovascular disease, diabetes, and autoimmunity.

**BIOC 1204 Cell Signalling****Level:** First Year Semester Two

The course is designed to provide a critical review of cell signalling pathways. Emphasis is put on hormone-neuro transmitter classification; steroids, and thyroxine, polypeptides: growth hormones, insulin, glucagon. Amino acid-derived, classical neurotransmitters. Eicosanoids. Cell-cell signalling. Diversity of receptor types, classification and biochemistry of cell surface receptors. Hierarchical nature of hormonal control. Signalling in response to steroids/thyroxine, intracellular receptor/transcriptional regulation. Signalling through G-proteins and tyrosine kinases. Second Messengers: cAMP, IP3/DAG; synthesis, generation in cell. Protein kinase C. Heterotrimeric G-protein role in signal transduction/sensory perception in cell types. Signalling via gated ion channels. Small GTPases. Signal transduction and oncogenesis.

**BIOC 1205 Experimental Biology and Lab Science****Level:** First Year Semester Two

This course is designed to expose students to biochemical practical experiences through practical sessions to gain basic skills and techniques necessary for laboratory investigation. The students are expected to study living systems in an experimental approach and undertake practicals on organisms too including plants and microbes, with focus on DNA, proteins, and other biomolecules. This course is expected to prepare the students for advanced practical sessions in biochemistry in subsequent years which may include; drugs and the nervous system; molecular genetics; cells and genes; organisms and their environment, and investigating inside the cells-DNA, and proteins.

**BIOC 1206 Structural Biochemistry****Level:** First Year Semester Two

The course is designed to provide a detailed understanding of the structure of proteins and nucleic acids. Emphasis in this course will be put on the following topics; Amino

acids and peptides, their chemistry, structure and classification. The peptide bond, structure and bioactive peptides. The protein structural hierarchy and examples. Isolation of informational bio macromolecules, precipitation of proteins, Chromatography of proteins including mode (ion exchange, size exclusions and affinity) and resolution (HPLC and FPLC), Protein purification tables, Alkali-phenol-lysis for preparation of plasmid DNA, isolation of mRNA by oligo dTcellulose. Sequencing of informational biomacromolecules; Direct sequencing by Edman degradation, Sequencing of proteins by mass spectrometry, Sanger sequencing of DNA, Sequence databases. Solid phase Methods-Merrifield peptide synthesis, synthesis of oligonucleotides, Electrophoresis-Native electrophoresis, SDS PAGE, Isoelectric focusing, 2D SDS PAGE, Blotting methods, Electro elution. Enzymes purification of organalles, membranes and membrane protein from cells; basis of catalysis, Michaelis-Menten equation, Kinetic parameters, Enzyme inhibition. Allosterism and metabolic control.

### **BRSB 2101 Data Analysis and Technical Writing**

**Level:** Second Year Semester One

This course is designed to introduce the students to the basic skills in handling biological data. The students are expected to know how to access IT facilities, how to use statistical techniques; use scientific software, design experiments, manipulate data, and perform calculations.

### **BIOC 2101 Bioinformatics**

**Level:** Second Year Semester One

The course is designed to provide an introduction to Bioinformatics. Emphasis in this course will be put on topics such as; Bit.Uncertainty, Entropy and information. Information in nucleotide and protein sequences. Information flow during gene expression. Genetic Code and translation as a noisy communication channel. Structure of protein coding genes. Relational databases. Boolean expressions. Genome browsers. Comparative programming. Progressive multiple alignment. Weight matrices. Heuristics methods(BLAST). Machine learning techniques (PSI-BLAST). Molecular evolution. Phylogenetic analysis. Trees. Phenetics and cladistics. Bayes theorem.

### **BIOC 2102 Biophysical and Biochemical Methods**

**Level:** Second Year Semester One

This course introduces the principles biophysical techniques used in Biochemistry. Emphasis is put on the following topics: Intrinsic properties of biomolecules. Interaction of light with biomaterials. Principles of the main spectroscopic techniques: UV/VIS, fluorescence and phosphorescence. Instrumentation, measurement modes and formats, practical uses of spectroscopic techniques for the identification and studies of biological objects and processes. Bio-separations. Basics and principle types of bio chromatography, HPLC. Electrophoretic techniques. Detection systems used in bio separations. Visualization and imaging techniques, flow cytometry. Binding, hybridization and cell based assays. Probes and labeling techniques: intrinsic and extrinsic chromo-and fluorophores, fluorescent proteins, radioisotopes, their analytical uses. Principles and biological use of NMR, ESR and mass-spectrometry techniques

### **BIOC 2103 Environmental Biochemistry and Toxicology**

**Level:** Second Year Semester One

The course is designed to introduce students to the basic concepts of biochemistry and toxicology of environmental pollutants. Topics to be emphasized include; Sources of xenobiotics and toxicants. Introduction to basic concepts in toxicology. Assessment of toxicity. Metabolism of xenobiotics. Phases of detoxification, Cytochrome P-450 system, conjugation and excretion reactions, biological oxidations, metabolism of benzo(a) pyrene and ethanol. Introduction to carcinogenesis, teratogenesis, immunotoxicity.

Chemical carcinogenesis. Initiators and promoters, genotoxicity, IARC and USEPA classification of carcinogens. Synthesis and toxicity of dioxins and related chlorinated and aromatic hydrocarbons. Toxicity of metals, including transition metals, detoxification by metallothioneins. Toxicity of pesticides and chemical warfare agents; their structure and mechanisms of toxicity. Air pollutants, levels and mechanisms of toxicity. Chemical risk assessment applied to human exposure situations.

### **BIOC 2104 Biomolecules**

**Level:** Second Year Semester One

The course introduces students to the chemistry of biomolecules. Emphasis is put on stereoisomers and how they can have different properties despite having same chemical formula, using examples from selected pharmaceutical products. It also covers water and pH; - the role of water as a biological constituent of life. pH and its importance to biological systems. Hydrogen bonding. Amino acids, their structure and function with focus on chemical properties and how they link to form proteins. Protein structure. Enzymes and enzyme kinetics, enzyme function role of active site of enzymes, enzyme kinetics. Enzyme inhibition and inhibitors. Carbohydrates and polysaccharides; Monosaccharide structure and function. Formation of simple polysaccharides. Lipids structure and function of simple lipids, role of lipids in biology, Introduction to biomolecules. Water ionization, interaction with biomolecules, pH, Amino acids, structures: primary, secondary, and quaternary structures. Lipids: structure and function. Carbohydrates: structure and function.

### **BIOC 2105 Immunology**

**Level:** Second Year Semester One

The course explores the immune system of the body. It introduces the main features of the immune system, the innate immune system, specific immune system. Recognition of microbes by specific immune system, methods of guarding against pathogens by immune systems, and the ways how immune systems cause disease including; allergy; autoimmune diseases; and how the immune system weakening by AIDS and Immunosuppressant drugs.

### **BIOC 2106 Molecular Biology**

**Level:** Second Year Semester One

The course is designed to introduce molecular biology and the molecular basis of diseases and drugs. Emphasis in this course is put on Structure of nucleic acids, DNA, RNA, Prokaryotic and eukaryotic gene structure, DNA replication, DNA repair, Transcription in prokaryotes and eukaryotes, and relevant drugs. Gene expression in prokaryotes and eukaryotes, the genetic code. Protein synthesis in prokaryotes and eukaryotes and drugs, Recombinant DNA technology; restriction endonucleases, vectors, ligation, transformation. Polymerase Chain Reaction (PCR) and applications. Recombinant products in medicine. DNA repair and detection of mutations in DNA, HIV life cycle and relevant drugs.

### **BIOC 2107 Medical Biochemistry & Genetics**

**Level:** Second Year Semester One

Medical Biochemistry is the area of general pathology that performs analyses on human specimens such as blood plasma and serum, urine, cerebrospinal fluid, serous fluids and tissue biopsies. The course describes common tests used to assist with the diagnosis and treatment of human diseases. In addition, the course also provides a broad overview of the principles of medical genetics and human molecular genetics. Emphasis in this course is put on the following topics; Basic principles & Practices in the medical

biochemistry laboratory, human specimen collection for diagnostic testing in clinical chemistry, analytical procedures in medical biochemistry, biochemistry disorders of carbohydrate, lipid, amino acid and protein metabolism, common analysis for assessment of human organ system functions, diagnosis of renal, cardiac, and liver functions, and analytical techniques such as immune assay, gas analysis, electrophoresis, blood pH and spectrophotometry. The course also covers other concepts of medical genetics such as; Meiosis, homologous recombination, resolution of Holiday structures, illegitimate recombination. Genetic disease patterns, autosomal dominant, recessive, X-linked, penetrance, polygenic, genetic imprinting. Population genetics, polymorphism/genetic variation, Hardy-Weinberg equilibrium, factors affecting allele frequencies. Quantitative traits, twin studies, heritability. Cytogenetics analysis, chromosome abnormalities and related studies. Molecular markers, RFLPs, VNTRs and micro-satellites, DNA fingerprinting. Basis of genetic mapping and positional cloning. Genetic association studies. Cancer genetics. Production of mouse mutants. Human gene therapy.

### **BIOC 2201 Biostatistics**

**Level:** Second Year Semester Two

This course introduces statistical methods often used in scientific data analysis. It gives a statistical view to students and then introduces them to the basics of descriptive statistics. The probability theory and concept, probability distributions and statistical inference are also covered. Students are introduced to hypothesis testing, comparison of two mean values, basics of experimental design and one way Anova. Significance of the F test, experiments with a block structure, factorial experiments, random and hierarchical models, split-plot experiments and checking the assumptions in Anova are also covered in this module.

### **BRSH 2201 Biochemistry Research Methods**

**Level:** Second Year Semester Two

This course is designed to provide critical research skills in development of experimental designs, writing reports, and practical skills in biochemistry. It introduces modern techniques in biochemistry research for laboratory based projects. At the end of the course, students are expected to be able to design and write Research proposals

### **BRSH 2202 Practical Aspects in Cell and Molecular Biology**

**Level:** Second Year Semester Two

The course is designed to expose students to a range of specific practical sessions using modern laboratory techniques. This is important to help students develop skills in laboratory and scientific data handling. The practical sessions designed in this course should cover the following techniques; PCR, Molecular cloning, clone analysis, protein analysis, bioinformatics, signalling pathways and the sub-cellular relocations of protein.

### **BIOC 2202 Cancer Biology and Molecular Oncology**

**Level:** Second Year Semester Two

The course is designed to provide an in-depth description of the molecular basis of cancer. Topics to emphasize include; Cancer. Viruses and Cancer. Oncogene transduction. Compare vncs with c-oncs. Functional division of oncoproteins (overview). Oncoproteins. Non-receptor tyrosine kinases. G-protein (oncs). Serine/Threonine kinases. SH2 and SH3 domains common features and specificity. Nuclear Oncoproteins. Anti-oncoproteins/Tumour suppressor proteins. Detailed consideration of Low MW GTPases: Rho Proteins, Ras proteins, Rab Proteins.

### **BIOC 2203 Biochemical Analysis Techniques**

**Level:** Second Year Semester Two

The course is designed to provide a basis for applications and tools used in routine



biochemical and ultra-structural analysis. Topics to emphasize include; Advanced recombinant DNA technologies. Scientific logic in the design, structuring and reporting of experimental studies. Sampling and analysis of experimental data with emphasis on routinely employed cell biology, molecular biology, toxicology, protein chemistry and biochemical laboratory techniques. The molecular basis of human genomics and forensic genetics. Profiling and DNA fingerprinting (minisatellites, microsatellites, STRs). Forensic and genealogical investigations.

### **BIOC 2204 Biochemistry of The Central Nervous System**

**Level:** Second Year Semester Two

This course unit is designed to provide an introduction to the biochemistry of neurotransmission in the central nervous system. Topics of emphasis in this course will include; structure and function of neurons and glia. Basic anatomy of the central nervous system (CNS). Information transfer in CNS. The molecular basis of the action potential, neurotransmission and synaptic function. The molecular basis of neurotransmission release, examination of the key proteins involved in the process. Neurotransmitter classification and description of the major neurotransmitters and their localization function, receptors, and transporters. Neurotransmitter transporters: structure and function. Neurotransmitter receptors: structure and function. Detailed consideration of neurotransmission by acetylcholine, serotonin, glutamate and GABA. Key defects in neurotransmitter signalling that lead to brain malfunction for example in stroke, Parkinson's disease, depression, and psychiatric disorders.

### **BIOC 2205 Forensic Genetics and Molecular Biology**

**Level:** Second Year Semester Two

The course is aimed at developing student's knowledge and understanding of the fundamental principles and applications of forensic genetics. Topics of emphasis will include; Human genetic diversity, the origin and types of mutations/variations in DNA, DNA damage and repair, composition and organization of the human genome with respect to repetitive DNA, mutation accumulation and population diversity, meiosis and the molecular basis of hereditary, information in DNA, DNA variations in human populations: Hardy-Weinberg equation, genetic drift, Bayes theorem, human inference from DNA data, discovery of DNA fingerprinting, DNA amplification technology, modern DNA fingerprinting, mitochondrial and Y chromosome analysis in forensic science future trends in forensic genetics, case studies in forensic genetics.

### **BIOC 2206 Chemical Safety and Toxicology**

**Level:** Second Year Semester Two

The course provides an understanding of the biochemical actions and interactions of toxicants in the human body. The effects of major classes of toxicants, the principles of chemical hazards and risk assessment, and appropriate controls and prevention strategies for toxic chemicals. The nature and properties of toxicants and hazardous chemicals; Routes of exposure and entry; Types of toxic response; Basic metabolism of compounds; Xenobiochemistry; Heavy metal pesticides; Carcinogens; Solvents; Assessment of toxicity; Bodily reactions; Chemical hazard assessment, control and prevention; and Toxicity information.

### **BPRS 2208 Parasitology**

**Level:** Third Year Semester Two

The course provides a broad understanding of the human parasitic infections; accessibility of parasites to hosts, and their survival in hosts. Emphasis will be put on study of Plasmodium (Malaria-causing parasite), Toxoplasma and schistosomes.



### **BIOC 2208: Genetics of Organisms**

**Level:** Second Year Semester Two

This course provides in-depth understanding of fundamental genetic concepts. Emphasis is put on the analysis of mutant phenotypes generated through genetic manipulations in various organisms to determine gene function.

### **BIOC 2208 Metabolic Pathways and Advanced Metabolism**

**Level:** First Year Semester Two

The course is designed to provide detailed understanding of metabolic pathways, metabolism of nitrogen compounds and complex lipids. Emphasis is put on types of metabolic pathways; bioenergetics, carbohydrate and lipid metabolism, glycolysis gluconeogenesis, glycogen metabolism and pathway regulation, hormonal, covalent and allosteric control of enzymes. The citric acid cycle and its role in metabolism. Oxidative phosphorylation, electron transfer and ATP synthesis, Lipid metabolism. The mobilization of fats. Fatty acid catabolism. Ketone body formation. Fatty acid biosynthesis. Regulation of fatty acid and lipid metabolism, Integration and overall control of metabolism. Overview of nitrogen metabolism, strategies for metabolic control, Metabolic fates of amino groups, role of glutamate, elimination of ammonia, pathways of amino acid synthesis and degradation, metabolism of biogenic amines, metabolism of purines and pyrimidines, Synthesis and catabolism. Salvage pathways, integration of hormonal regulation of mammalian metabolism, biosynthesis of membrane lipids, cholesterol biosynthesis and metabolism. Metabolism of lipoprotein, bile acids and steroids hormone biosynthesis;

### **BINT 2308 Internship**

**Level:** Second Year Semester Three (Summer Period)

The course is designed to provide an opportunity for students to gain relevant work experience in a commercial environment. In this course, Students will be placed in an industrial or other relevant work environment for 3 months. During this period, the students will be expected to make a significant contribution to a relevant project under the supervision of industrial and Bugema University personnel. Students are obliged to actively participate in the Industrial Training Programme and to attend scheduled interviews. Students are required to prepare a final report on their placement, and make a presentation on their work.

### **BIOT 3101 Biotechnology**

**Level:** Third Year Semester One

The course covers the principles and advanced methods underlying the production, purification and applications of biotechnology-related products of relevance to research, industry, medicine and agriculture. Major topics of emphasis in this course include; Genetic basis of disease. Genomic, transcriptomic and proteomic approaches in research and disease detection. Mutagenesis and protein engineering. Disease treatment strategies. Isolation, culture and regeneration of embryonic and adult stem cells. Ex-vivo and in vivo gene therapy in regulating expression of cellular proteins. Tissue/organ generation, biomedical engineering. Cell culture and associated research/ industrial considerations. Generation of hybridomas and the production of monoclonal and humanized monoclonal antibodies. Protein production and downstream processing. Purification - tags/ chromatographic approaches. Principles and applications of plant biotechnology. Purification of products of biotech relevance from plants. Principles and applications of microbial biotechnology.

**BIOC 3101 Protein Science****Level:** Third Year Semester One

The course provides an in-depth description of advanced aspects of protein particularly enzymes, their structure, and function which are relevant to biochemistry. Emphasis is put on the protein hierarchy. Protein crystallography. Solving structures by X-ray diffraction. Multidimensional NMR for protein structure determination and its comparison with crystallography. The protein structural database and their uses, and computer based application in studying proteins. The protein folding problem In vitro and In vivo. Meaning and determination of kinetic parameters of enzymes. Selected methods of probing kinetic mechanism. Site directed mutagenesis and protein engineering. In vivo and In vitro environment of enzymes. Proteomics.

**BIOC 3102 Endocrinology****Level:** Third Year Semester One

The course deals with the endocrine system that synthesizes and releases hormones, to maintain homeostatic control of physiological processes in response to internal and external body environment. The structure and function of key endocrine tissues, effects of their hormonal products, regulatory parameters of endocrine system such as growth, appetite, blood sugar levels, stress, fertility in males and females, pregnancy, puberty and calcium balance will be covered.

**BIPH 3102 Pharmacology and Therapeutics****Level:** Third Year Semester One

This course introduces pharmacology as the science of drugs; drug preparation, properties, uses and effects. It explores the molecular interactions of drugs with their targets in the body, focusing on the actions of drugs that act on the cardiorespiratory system, for treating conditions such as angina and asthma.

**BIOC 3103 Cell Metabolism and Metabolic Control****Level:** Third Year Semester One

The course provides understanding of the metabolic pathways in mammalian cells, with selected reference to microbes, and plants. Diseases caused by defects in metabolism, such as diabetes, will also be discussed to underscore the relevance of metabolic control.

**BIOC 3104 Principles of Infectious Disease****Level:** Third Year Semester One

The course provides a broad understanding of the biology of microbial infections with particular emphasis on Human Bacterial infections. The mechanism of microbial pathogenicity (adhesion and invasion), cell and tissue damage, and host responses to injury will be covered; including detailed study of disease such as TB, tetanus, and Syphilis.

**BIOC 3105 Industrial Biochemistry****Level:** Third Year Semester One

The course is designed to introduce students to the industrial exploitation of biochemical systems (microorganisms and their associated processes) to make products with commercial value. The course covers production of microbial cells, products from cells (drugs, chemicals and foods), and the use of microbial cells to catalyze particular reactions in large volumes. It also covers industrial microorganisms and their products, growth and product formation in bio catalysis, characteristics of large-scale fermentations, fermentation scale-up, energy production (ethanol, biogas etc), conversion of sunlight into biomass (bioreactors and bio photolysis), bio extractive metallurgy (microbial leaching, metal accumulation and complexation). It also covers the food and beverages industry: dairy products, cereal products, brewing, food additives, fruits and beverages,

ripening, meat processing, spoilage and pest control. Production of biomolecules: insulin, interferon, viral antigens, growth hormones, rennin, antibiotics, biopolymers, pharmaceutical products, enzymes etc, extraction of enzymes, dyes, perfumes, detergents, and medicinal products is also a major component of this course. An introduction to biochemical basis of waste management and pollution control, and the different types of waste, sewage and wastewater microbiology, conventional biological wastewater treatment technologies (activated sludge, fluidized bed reactor processes etc), wetland processes and resource recovery (biogas, biofertilisers) are also covered.

### **BIOC 3106 Food Science and Nutrition**

**Level:** Third Year Semester One

This course introduces students to food science and nutrition as specialty areas related to biochemistry. Students are introduced to dietary standards and their applications and to food composition, food composition tables and their applications. Proteins, carbohydrates and fats as well as energy and nitrogen balance. Also covered are aspects of food microbiology, food processing and preservation and food spoilage. Techniques for assessing human nutritional status are presented, with a focus on biochemical techniques. The absorption, utilization and functions of the micronutrients of public health interest: Vitamin A, iron and iodine are discussed as are the deficiency disorders: Iodine Deficiency Disorders, Vitamin A Deficiency and Iron Deficiency and nutritional anaemia. Students are also given an overview of the inter-relationship between nutrition and infection. Lastly, primary nutritional diseases of particular importance to Uganda are introduced, including oedematous malnutrition and a biochemical analysis of the different theories of its aetiology is given.

### **BRSB 3106 Research Project**

**Level:** Third Year Semester One

The course requires a student to carry out an independent research project on a topic of interest in biochemistry, to plan and execute a programme of investigative work, write a concise scientific report and present the work in the form of a seminar to the class. The research project can take the nature of a Laboratory based project; which can be a piece of original research in a specialist laboratory; Field based research which may involve designing and undertaking research in the field; Education project, which may involve working with a school or other educational organization to design a product such as a practical which may be of value in teaching and learning; a science media project which may involve producing a collection of communication materials for a range of audiences; or an enterprise project which may involve working with a team to develop a business plan for a real product or service in the area of Biochemistry or life sciences.

### **BIOC 3107 Human-Microbe Interactions and Environment**

**Level:** Third Year Semester One

The course is designed to explore the interactions between microbes and man, and their critical role in the global ecosystem. The diversity of microbes in form and function and how they evolved from primitive life forms to colonize new environmental niches, their interaction with plants, insects and man will be examined. Also appropriate strategies to mitigate human-microbe interactions will be discussed.

### **BIOC 3108 Cells and Tissues In Human Disease**

**Level:** Third Year Semester One

The course deals with basic cellular mechanisms underlying common human diseases and understanding how drugs act on cellular and tissue dysfunctions to treat diseases. Topics like auto-immune disease, cancer and arthritis will also be covered.

**BIOC 3109 Molecular Basis of Brain Disorders****Level:** Third Year Semester One

The course is designed to describe the Molecular Basis of Neurodegeneration/ Disorders of the Nervous System. It addresses the history and current understanding of the molecular pathogenesis of Alzheimer's disease, Focusing on the structure, function and role of the key pathogenic proteins in Alzheimers disease: the amyloid precursor protein, tau, presenilin complex and Apolipoprotein E. Development of transgenic animal models of Alzheimer's disease. The amyloid hypothesis and other theories towards understanding the molecular pathogenesis of Alzheimer's disease. The history and current understanding of the molecular pathogenesis of Parkinson's disease. Focus on the structure and function of the key pathogenic proteins in Parkinson's disease: alpha synuclein and the PARK genes. Development of models and treatment strategies for Parkinson's disease. Current hypothesis of neurodegeneration in Parkinson's disease, with focus on mitochondrial dysfunction, oxidative stress and the ubiquitin proteasomal system. The history and current understanding of the molecular pathogenesis of Huntington's disease. Mechanisms of neurodegeneration brought about by mutant huntington, models and treatment. Methods used to understand molecular basis of neurodegeneration.

**BIOC 3110 Body Systems****Level:** Third Year Semester One

This course covers major concepts in physiology, tissue types that form structures of the body, and the relationship between cardiovascular and respiratory systems, and an interpretation of alteration effects for diseases of the cardiovascular and respiratory systems on the physiology and anatomy of body systems.

**BIOC 3111 Sensory, Nervous Cells & Membrane Excitability****Level:** Third Year Semester One

The course explores sensory cells for sight, hearing, feeling and smell, and the mechanisms that help us to receive sensory information, and the information is processed by the vital areas of the brain. The excitable cells, their structure and function and their relevance and techniques for studying them will be discussed. Finally, the role of ion channels, and ion transporters proteins, the relationship between cellular structure and the function of excitable cells, features of synapses that support faster chemical neurotransmission and its modification, and the methods used to analyze

**BIOC 3112 Principles of Developmental Biology****Level:** Third Year Semester One

This course deals with various steps needed for correct formation of a body of a living organism. Emphasis is put on mechanisms used to produce cell types, and the role of developmental biology in medicine; including stem therapy, tissue engineering, and regenerative medicine will be explored.

**BIOC 3113 Quantitative Food Analysis Techniques****Level:** Third Year Semester One

The purpose of this course is to expose students to the principles, methods, and techniques of qualitative and quantitative physical, chemical and biochemical analyses of foods. Throughout the course, major emphasis will be placed on understanding the basic principles of classical and instrumental methods of analysis, with lesser emphasis on details of specific methods. Criteria for the choice of various analytical methods will be presented. Methods of treating data and sampling techniques will be studied. Different topics will focus on common methods of proximate analysis and related techniques used in analysis of food and food ingredients

### **BENV 3201 Bio-Ethics and Issues in Science & Biomedicine**

**Level:** Third Year Semester Two

The course deals with explaining the best rationale for science in society, ethics and/ in science and innovation, social and ethical implications of science; role of science in society, “good science” and bad science”, research categories in science, decision making in scientific research, and appropriate science for development. It also covers concerns and ethical questions about modern biology and biomedicine and provides students with a historical background to particular issues and debates in science and biomedicine.

### **BIOC 3202 Biochemical Basis of Disease**

**Level:** Third Year Semester Two

The course covers biochemical basis of disease including genetic and metabolic disorders such as cancer, neurological degenerative conditions, diabetes, stroke and blood disorders and also an emphasis to some plant diseases.

### **BIMB 3202 Advanced Molecular Biology**

**Level:** Third Year Semester Two

The course is designed to develop students’ knowledge of gene expression, gene regulation, and recombinant DNA Technology. The emphasis in this course will be put in the following areas: DNA structure and function; DNA supercoiling; chromatin and higher order structure and organization in eukaryotic DNA; RNA transcription in prokaryotes and eukaryotes; eukaryotic gene regulation with respect to chromatin; gene promoters; prokaryotic and eukaryotic gene regulatory mechanisms of recombination; DNA amplification and analysis technology; recombinant DNA technology and its applications including protein over expression.

### **BIOC 3203 Clinical Drug Development**

**Level:** Third Year Semester Two

The course describes the application of scientific disciplines to discover new drugs and develop them. It explores initial ideas in discovery process, up to clinical use in Man. The role of pharmacokinetics in development of new drugs, and the relationship between business aspects and bioscience.

### **BIOC 3204 Microbiology**

**Level:** Third Year Semester One

This course provides an overview of bacterial cell structure, function, metabolism and regulatory mechanisms. It also explores the evolutionary history of prokaryotes and diversity of bacterial species, and emerging technological developments including genome sequencing.

### **BIOC 3206 Animal Physiology**

**Level:** Third Year Semester Two

This course is a systematic approach to the integrated study of animal physiology. It covers the structure and function of the animal body, cells and tissues, as well as the skeletal, muscular, nervous, endocrine, circulatory, digestive and urinary systems. Thermoregulation and adaptations of ectotherms and endotherms are included.

### **BIOC 3207 Hematology**

**Level:** Third Year Semester Two

This course deals with diseases such as leukemia, or Anaemia which affect the blood and bloodforming organs. It provides understanding of blood cell formation, structure and haematological disorders and their diagnosis and treatment.

### **BIOC 3208 Plant Genetic Conservation and Biodiversity**

**Level:** Third Year Semester Two

The course is designed to survey diversity of life from simpler ones, to the rich diversity of organisms in ecosystems. Life forms from microbes, to large mammals, and trees. It will investigate different scales of biodiversity with emphasis to plant genetic diversity, population, and community diversity. Special attention will be paid the fact that organisms are not isolated but are interrelated through sharing resources, and competition in ecosystems. Sustainable methods of conserving biodiversity will be explored, including ex-situ, and in-situ methods with relevant examples; such as gene banks, germplasm stores, seed banks, Botanical gardens.

### **BIOC 3209 Virology**

**Level:** Third Year Semester Two

The course is designed to provide an introduction to viral structure and function, and explore how viruses disrupt functioning of host cells to generate viral factories. It also covers detailed mechanisms of pathogens in causing disease, with respect to Influenza and HIV. Design of viral vaccines and their uses in eradicating viral infections like polio will be covered.

### **BSTA 1104 Introduction to Decision Sciences**

**Level:** First Year Semester One

The course provides an introduction to basic concepts and techniques of decision-making and information management in business, economics, social and physical science. Topics include discrete optimization, discrete probability, networks, decision trees, games, and Markov chains.

### **BSTA 1105 Experimental Designs**

**Level:** First Year Semester One

The course covers an analysis of experimental designs used in research and their application in research. Major focus is put on relevant designs such as completely random design, block designs, Latin squares, multiple comparisons, and factorial experiments. The concepts in sampling theory with special application to experimental designs are also discussed in detail including some aspects of ratio estimation.

### **BSTA 1106 Calculus**

**Level:** First Year Semester One

This course introduces the first major branches of Calculus: Differential Calculus. Differential Calculus studies rates of change in one quantity relative to rate of change in another quantity. It is highly applicable in many natural and artificial processes where quantities change with respect to other quantities.

### **BSTA 1201 Fundamentals of Statistics**

**Level:** First Year Semester Two

The course is designed to cover basic elements of business statistics. Major topics include; Descriptive statistics, data displays, measures of central tendency and variability, random variables, sampling distributions. Estimation and hypothesis tests for means and proportions. Linear regression and correlation. Frequency distributions, probability, Bayes theorem, probability distributions (including binomial, hyper geometric, and normal), confidence intervals, significance testing.

**BSTA 1202 Multivariate Calculus****Level:** First year Semester Two

This course is a continuation of Calculus. It introduces the second major branch of Calculus: integral Calculus: integral Calculus deals with the accumulation of quantities such as distance travelled or area under a curve. The two branches are inversely related as specified by the Fundamental theorem of Calculus. Integration of non-continuous functions will be studied and many applications to arc length, area under a curve, surfaces of revolution will be considered.

**BSTA 1203 Differential Equations****Level:** First Year Semester Two

This course introduces the student to various methods for solving first order and second order differential equations and difference equations. The course also covers methods used in power series solutions for the first and second order differential equations and linear equations of  $n$ th order. Systems of differential equations are also covered. Applications in Physics, Ecology, Environment and Biology are given.

**BSTA 1205 Probability and Mathematical Statistics****Level:** First Year Semester Two

This is a theoretical course which covers probability spaces, the general multiplicative rule, Boole's inequality and Bayes Theorem. Random variables including the probability density function, distribution function will be discussed. Expectation, Markov and Chebychev inequalities and moments and moment generating functions are also covered. There will be a discussion of common distributions such as Bernoulli, binomial, Poisson, geometric, negative binomial, exponential, gamma, beta, normal and Weibull. Interrelationships, such as mgf and pgf will be covered where applicable. The course requires a foundation in mathematics. Theory behind variance, covariance, correlation and independence will be discussed. Distribution of functions of random variables including sums and quotients will be included. Use of other techniques such as the mgf technique, Jacobean transformation, distribution of the sample mean, order statistics, the law of large numbers, and the central limit theorem will be discussed.

**BSTA 1201 Linear Algebra****Level:** First Year Semester Two

The course introduces students to vectors, vector spaces, linear transformations and systems of linear equations. Using systems of linear equations, the course explores mathematical properties of a vector space such as linear independence, bases and dimensions. Linear transformations are studied as relationships between vector spaces leading to the rank-nullity theorem. The course also introduces students to eigen spaces and diagonalization.

**BSTA 1203 Numerical Methods****Level:** First Year Semester Two

The course describes numerical methods as techniques to approximate mathematical procedure. In this course, focus is put on numerical methods for mathematical procedures and topics.

Specific topics include; Finite Representations of Real Numbers, Floating-Point Numbers; Floating-Point Representation Theorem; Fundamental Axiom of Floating-Point Arithmetic; Error Analysis Differentiation, Nonlinear Equations, Simultaneous Linear Equations, Interpolation, Integration, Ordinary Differential Equations. Calculation of errors and their relationship to the accuracy of the numerical solutions is emphasized throughout the course.



### **BSTA 1204 Modelling and Optimization**

**Level:** First Year Semester Two

The course covers topics in Mathematical Optimization. It is one of the most powerful and widely used quantitative techniques for making optimal decisions. It also focuses on enabling students to model and solve real-life management problems. An overview is provided on fundamental techniques, linear and integer programming, emphasizing modeling and solution concepts and methods (e.g. feasibility, optimality, duality, multiple objectives, using binary variables for modeling, network models).

### **BSTA 1206 Statistical Methods and Data Analysis**

**Level:** First Year Semester Two

The course gives a theoretical and practical approach to analysis of data using statistical methods divided in three broad analysis categories. The major topics and approaches to consider are paired difference tests, tests for variances, analysis of variance. Linear regression and correlation. Chi-square tests. Simple parametric and nonparametric methods and applications will be considered. Other topics include simple and multiple linear regression, matrix representation of the regression model, statistical inferences for regression model, regression diagnostics, model selection, weighted least square procedure for unequal error variances, and ANOVA model and test. Statistical software SPSS and Ms Excel will be considered to demonstrate how to apply the techniques on real data. The course also focuses on analysis of time series data, recorded in time in a wide range of areas such as Environmental Sciences, Economics, Business and Finance, Actuarial Sciences, Social Sciences. Additional topics include; estimation and elimination of trend and seasonal components, stationary time series and forecasting of time series.

### **BSTA 1207 Statistical Modeling & Analysis**

**Level** First Year Semester Two

The course covers Statistical Modeling & Analysis Methods of estimation; applied probability models; algorithms for probabilistic & statistical computation; linear & nonlinear models in the biological & physical sciences; experimental design; graphical procedures for univariate & multivariate data.

### **BSTA 2101 Probability Models**

**Level** Second Year Semester One

The course covers description of probability models. Generating functions & transforms. Limit laws. Markov chains in discrete & continuous time. Stochastic models in epidemics, finance, population biology, genetics, reliability & telecommunications. Simulation methods.

### **BSTA 2102 Programming and Data Management**

**Level:** Second Year Semester One

The course fully covers the basics of programming in the “C” programming language and demonstrates fundamental programming techniques, customs and vocabulary including the most common library functions and the usage of the preprocessor.

### **BSTA 2104 Mathematical Statistics**

**Level:** Second Year Semester One

The course is designed to provide students with a mathematical approach to statistics to prepare them for more advanced courses in statistics that require mathematical concepts. Vital concepts such as Likelihood theory: maximum likelihood, asymptotic theory, nuisance parameters, applications, likelihood ratio test, score tests, Wald tests, and exponential family (properties: sufficiency, completeness) are covered. Other topics



include Confidence intervals, hypothesis tests. Bayesian inference. Multivariate normal distribution & quadratic forms. Distributional results & inference for general linear model.

### **BSTA 2105 Applied Regression Analysis**

**Level:** Second Year Semester One

The course covers methods for simple and multiple regression models, model fitting, variable selection, diagnostic tools, model validation, and matrix forms for multiple regressions. Applications of these methods will be illustrated with the SAS, SPSS, and/or S-Plus computer packages.

### **BSTA 2106 Sample Surveys and Methodology**

**Level:** Second Year Semester One

The course covers methods for design and analysis of sample surveys with applications to social and biological sciences. Simple random sampling, stratification and clustering, ratio and regression estimators, subsampling, selected topics in survey methodology. Principles and methods of survey sampling, including simple random sampling, stratified sampling and cluster sampling. Questionnaire design, problems of nonresponse, sources of non-sampling errors.

Design, execution, and analysis of an actual survey.

### **BSTA 2107 Applied Multivariate Analysis**

**Level:** Second Year Semester One

The course covers discussion of the multivariate normal distribution, multivariate analysis of variance, principal components, factor analysis, discriminant function analysis, classification, and clustering. Statistical packages will be used for data analysis.

### **BSTA 2108 Pattern Recognition & Prediction in Statistics**

**Level:** Second Year Semester One

The course covers basic introduction to theories, algorithms, and practical solutions of statistical pattern recognition. The major topics to be covered include; feature extraction, feature selection, Bayesian classifiers, neural networks, discriminative classifiers, clustering performance evaluation, and fusion of models.

### **BINT 2301 Internship**

**Level:** Second Year Summer Period

The course is designed to provide an opportunity for students to gain relevant work experience in a professional environment. In this course, Students will be placed in an industrial or other relevant work environment for 3 months. During this period, the students will be expected to make a significant contribution to a relevant project under the supervision of industrial and Bugema University personnel. Students are obliged to actively participate in the Industrial Training Programme and to attend scheduled interviews. Students are required to prepare a final report on their placement, and make a presentation on their work.

### **BSTA 2202 Mathematical Models for Decision Making**

**Level:** Second Year Semester Two

This is an intensive course that introduces the basic principles and techniques of applied mathematical modeling for managerial decision-making. It helps students to learn how to use important analytic methods such as spreadsheet modeling, optimization, Monte Carlo simulation, to recognize their assumptions and limitations, and to employ them in decision-making. The emphasis will be on model formulation and interpretation

of results, not on mathematical theory. The course puts emphasis on understanding decision models that are widely used in diverse industries and functional areas, including finance, operations, and marketing. The course also involves use of mathematics to describe and analyze large-scale decision problems. Situations involving the allocation of resources, making decisions in a competitive environment, and dealing with uncertainty are modeled and solved using suitable software packages. Other topics to be covered include; Laplace criterion; Minimum-maximum criterion or the criterion of minimizing the regret (Savage's criterion); Pessimistic-optimistic criterion (Hurwicz's criterion); Max-max criterion (optimistic); Maxi-min criterion (Abraham Walt's criterion); Maxi-min criterion (Abraham Walt's criterion); Models of Complex Systems

### **BSTA 2203 Numerical Analysis**

**Level:** Second Year Semester Two

The course covers topics in Finite Representations of Real Numbers, Floating-Point Numbers; Floating-Point Representation Theorem; Fundamental Axiom of Floating-Point Arithmetic; Error Analysis; Forward Error Analysis; Backward Error Analysis; Swamping and Cancellation; Programming Case Study: The Quadratic Formula; Polynomial Functions; Nonlinear Equations of a Single Real Variable; Differentiation and Integrations of Functions, and Differential Equations.

### **BSTA 2204 Applied Probability**

**Level** 2<sup>nd</sup> Year Semester Two

The course covers topics in computation of probabilities via enumeration and simulation, discrete and continuous distributions, moments of random variables. Markov chains, counting and queuing processes, and selected topics.

### **BSTA 2205 Mathematical and Empirical Reasoning**

**Level:** Second Year Semester Two

This course surveys a variety of mathematical topics needed to prepare students for quantitative reasoning. Topics include: numeracy with an emphasis on estimation and fluency with large numbers; evaluating expressions and formulas; rates, ratios, and proportions; percentages; solving equations; linear models; data interpretations including graphs and tables; verbal, algebraic and graphical representations of functions; exponential models. The conceptual and theoretical tools used in reasoning and problem solving are also discussed. Students develop the ability to apply abstract principles and theories to concrete problems. They also learn how to make decisions and draw inferences that involve the evaluation of data and evidence, and how to recognize when an issue cannot be settled on the basis of the available evidence. Students will become aware of the many mistakes that human beings are prone to making in their reasoning and come to understand how to avoid common pitfalls in inference-making.

### **BSTA 2206 Statistical Methods in Biological & Medical Sciences**

**Level:** Second Year Semester Two

The course covers application of statistics in health and biological sciences including topics like; health and biological data collection, organisation and presentation, measures of central tendency and variation, demographic methods and health services statistics: measures of fertility, measures of mortality, population growth and projection techniques, health services statistics, probability and probability distribution in biological and health statistics, sampling methods, estimation in health statistics, hypothesis testing, correlation and regression.

### **BSTA 2207 Stata Statistical Package**

**Level:** Second Year Semester Two

This course focuses on the usage of STATA package for analysis and management of data. The course mainly will provide hands on experience in the analysis of research data since it's very useful and vital to various disciplines. The major topics include Variable description and Data capture using STATA. Data manipulation and Statistical Modeling of categorical data in STATA. Running a Logistic and Linear regression for different data types in multivariate analysis.

### **BSTA 2208 Mathematical and Empirical Reasoning**

**Level:** Second Year Semester Two

This course surveys a variety of mathematical topics needed to prepare students for quantitative reasoning. Topics include: numeracy with an emphasis on estimation and fluency with large numbers; evaluating expressions and formulas; rates, ratios, and proportions; percentages; solving equations; linear models; data interpretations including graphs and tables; verbal, algebraic and graphical representations of functions; exponential models. The conceptual and theoretical tools used in reasoning and problem solving are also discussed. Students develop the ability to apply abstract principles and theories to concrete problems. They also learn how to make decisions and draw inferences that involve the evaluation of data and evidence, and how to recognize when an issue cannot be settled on the basis of the available evidence. Students will become aware of the many mistakes that human beings are prone to making in their reasoning and come to understand how to avoid common pitfalls in inference-making.

### **BSTA 3101 Dynamical Systems**

**Level:** Third Year Semester One

The course is designed to address dynamic systems, i.e., systems that evolve with time. These systems have inputs and outputs. Specifically, the course will focus on systems that can be modeled by Ordinary Differential Equations (ODEs), and that satisfy certain linearity and timeinvariance conditions. We will analyze the response of these systems to inputs and initial conditions. It is of particular interest to analyze systems obtained as interconnections (e.g., feedback) of two or more other systems. We will learn how to design (control) systems that ensure desirable properties of the interconnection with a given dynamic system.

### **BSTA 3102 Scientific Computing**

**Level:** Third Year Semester One

The course is designed to provide an introduction to using computers to solve problems in Science, Technology, Engineering and Mathematics, data analysis, visualization and simulations. The main tool used will be MATLAB, with example applications drawn primarily from engineering, neuroscience, biology, mathematics and finance. During the course, students will be encouraged to access and analyze a number of "real world" data sets, in order to become fluent MATLAB programmers. By the end of the course, students should be comfortably able to use MATLAB to solve a large variety of scientific data analysis, visualization and simulation problems.

### **BSTA 3103 Time Series Analysis**

**Level:** Third Year Semester One

The course is designed to provide a survey of theories and application of time series methods in econometrics. It covers topics that include univariate stationary and non-stationary models, vector auto regressions, frequency domain methods, models for estimation and inference in persistent time series, and structural breaks. In addition,

different methods of estimation and inferences of modern dynamic stochastic general equilibrium models (DSGE): and simulated method of moments, including Maximum likelihood and Bayesian approach are also covered.

### **BSTA 3104 Simulation Analysis and Design**

**Level:** Third Year Semester One

The course covers an introduction of concepts of random number generation, random variate generation, and discrete event simulation of stochastic systems. Students will be required to perform simulation experiments using standard simulation software.

### **BSTA 3105 Deterministic Models in Operations Research**

**Level:** Third Year Semester One

This is an introductory course to models in operations research. Courses covered include: General introduction to models in operation research, Linear programming(LP) models: Graphical & Simplex Algorithms for solving LP problems, The Big M & Two-phase methods, Inventory control models: EOQ-models, Statistical quality control models: Process & product control models, Project network analysis: Minimum cost network flow problems, shortest path problems and assignment problems as special cases, Further linear programming: Integer & Basic dynamic linear programming models, the branch-and-bound method, & the Two-person games, Sensitivity analysis in different models

### **BSTA 3106 Stochastic Processes**

**Level:** Third Year Semester One

The course is designed to develop and analyse probability models that capture the salient features of systems under study in order to predict the effects of randomness on the systems. The course involves application of a wide range of mathematical and computational tools, and strikes a balance between mathematics and its applications in statistics. Specific covered include; conditional probability and conditional expectation. Markov chains in discrete time. The Poisson process, Markov process in continuous time.

### **BSTA 3107 Financial Mathematics & Fluid Dynamics**

**Level:** Third Year Semester One

The course discusses modeling of simple fluid flows and mathematical methods. It provides techniques in solving ordinary and partial differential equations including: Laplace's equation, the wave equation and the diffusion equation; some vector field theory; and Fourier analysis. The topics in financial mathematics include; Fixed Income Models; Continuous time models for arbitrage-free pricing of interest rates derivatives. Bonds, yields and the construction of yield curves. Short rates models. Yield curve models. Forward measures. Caps, floors, swaps, and bond options. Other topics covered in this course include: pressure, hydrostatics, and buoyancy; open systems and control volume analysis; mass conservation and momentum conservation for moving fluids; viscous fluid flows, flow through pipes; dimensional analysis; boundary layers, and lift and drag on objects. Students will work to formulate the models necessary to study, analyze, and design fluid systems through the application of these concepts, and to develop the problem-solving skills essential to good engineering practice of fluid mechanics in practical applications.

### **BSTA 3201 Statistical Methods in Social Sciences**

**Level:** Third Year Semester Two

The course covers: Introduction and Descriptive Statistics; Foundations of Inferential Statistics; Inferences about Means and Mean Differences; Correlations and Regression; Nonparametric Statistics. Upon completion of the course the students will be expected to effectively use techniques in descriptive and inferential statistics.

### **BSTA 3202 Biostatistics and Demography**

**Level:** Third Year Semester Two

The course is designed to examine the basic materials and methods used in biostatistics and demography, including measure of health and disease, clinical trials, trial designs, analysis of life tables, formal demography, demographic models, and population theories. Other areas covered in this course include; demographic and statistical methods of analysis of population and sample data, survival analysis. Consequently an integrated application of demographic techniques in marketing, management and impact analyses in business and government is also covered to create a comprehensive understanding of dynamics in demography and population statistics.

### **BSTA 3203 Development and Planning Statistics**

**Level:** Third Year Semester Two

The course is designed to provide tools and technique in examining the application of important concepts and principles in development and planning. It also describes the tools used to extract and analyse data to understand and evaluate development progress. The wide approach in the course exposes students to key areas of planning, analysis and assessment of development indicators at local levels, national, regional and international levels.

### **BSTA 3204 Labor and Transport Statistics**

**Level:** Third Year Semester Two

The course is designed to provide tools and technique in examining the application of important concepts and principles in Labor and Transport statistics. It also describes the tools used to extract and analyse data to understand and evaluate the performance in labor and transport sectors. The wide approach in the course exposes students to key areas of planning, analysis and assessment of development indicators using Labor and Transport sectors at local levels, national, regional and international levels.

### **BSTA 3205 Introduction to Machine Learning**

**Level:** Third Year Semester Two

The course covers an introduction to theory and methods of machine learning including classification; Bayes risk/rule, linear discriminant analysis, logistic regression, nearest neighbors, and support vector machines; clustering algorithms; over fitting, estimation error, cross validation.

### **BSTA 3206 Socio-Economic Statistics**

**Level:** Third Year Semester Two

The course is designed to provide tools and technique in examining the application of important concepts and principles in socio-economic statistics. It also describes the tools used to extract and analyse data to understand and evaluate the social status of communities and other social groupings. The wide approach in the course exposes students to key areas of planning, analysis and assessment of social indicators at local levels, national, regional and international levels.

### **BSTA 3207 Applied Statistical Modeling**

**Level:** Third Year Semester Two

This is a course in intermediate and advanced statistical inference techniques in the context of applied research questions in data science. The course will build on the students basic knowledge of probability to cover topics such as exploratory data analysis and visualization, principles of estimation and hypothesis testing and the general and generalized linear models including scientific computation such as M Algorithm,

Newton Raphson, and Monte Carlo techniques). These topics are followed by recent developments in model selection and Bayesian modeling. The student will be expected to understand the mathematical theory, implement related statistical algorithms in statistical programming language such as R and interpret models and parameters in the context of applied statistical analysis of real data.

### **BSTA 3208 Decision Models for Business**

#### **Level Third Year Semester One**

The course introduces basic quantitative models of business with linear and non-linear functions of single and multiple variables. Linear and non-linear optimization models and decision models under uncertainty will be covered.

### **BSTA 3209 Statistical Methods in Financial Risk Management**

#### **Level: Third Year Semester Two**

This course covers statistical topics related to market risk, credit risk, and credit markets. Students will analyze logistic regression, generalized linear models and generalized mixed models to understand why loan prepayment and default are competing risks. Explore how banking and bank regulation impacts asset and liability management. Specific topics covered include; back testing, stress testing, and Monte Carlo methods; censored data, survival analysis and hazard functions; Correlated default intensities; Frailty and contagion; Risk surveillance; Early warning and adaptive risk control methodologies.

### **BSTA 3210 Actuarial Modeling**

#### **Level: Third Year Semester Two**

The course covers actuarial models and applications of probability and statistics to insurance and other financial risks. Utility theory; risk models; compound processes; survival distributions and life tables; life insurance, annuities and benefits.

### **BRSH 3301 / BSTA 3301: Research Project**

#### **Level: Third Year Summer Period**

The course is designed to enhance skills and the ability of students to identify, analyse and solve problems in scientific research, and their skills in communicating research results. The course emphasises an original research project on a topic in a field where statistics contributes to solving of problems, performed under the supervision of an appointed faculty. The students will be expected to prepare a detailed report on their project work in accordance with the approved guidelines provided by the concerned department of Bugema University.

### **BECO 1101 Microeconomics I**

Explores the theories currently used to explain how people choose what to consume and produce given a fixed income or budget. The price mechanism and the determination of output level in various market structures in both the product and factor markets are also investigated.

### **BECO 1202 Macroeconomics I**

The topics covered include an analytical study of income and expenditures according to Neoclassical and Keynesian theories. An examination of inflation, depression, economic growth and unemployment are also included. Modern banking and monetary supply issues are part of the study.

### **BACC 2210 Taxation I**

The course introduces students to current laws and principles relating to taxation in Uganda and its practical application in determining sources of gross income. It also involves the calculation of taxable income and tax payable by individuals and companies.

### **BEVS 1101 Introduction to Environmental Sciences**

**Level:** First Year Semester One

The course provides an interdisciplinary background between physical and biological sciences to understand the environment and solutions to environmental problems. This provides a solid foundation for different specializations in environmental sciences. The course will also include investigation of fundamental causes of environmental degradation, its effects, tools to mitigate environmental impacts, and sustainable alternatives to promote sustainable development using different scientific approaches.

### **GECC 1101 Fundamentals of Computers and Office Applications**

**Level:** First Year Semester One

The course unit is intended to introduce learners to fundamental computer hardware and software concepts to enable them appreciate the benefits of deploying ICT in business and environmental systems. The course will cover classification of computers, major PC components and explain the functions of each component, introduction to windows operating system, office applications like MS Word, Excel, Power point and Access, basic network concepts and internet usage. The course will also cover basic security and ethical issues experienced in the field of computing.

### **BEVS 1102 Biodiversity**

**Level:** First Year, Semester One

The course is a survey of the diversity of all forms of life. The survey will include the study of biodiversity values, Ecological, economic, cultural and Aesthetic values with regard to specific goods and services of biodiversity in different ecosystems. It will also survey different examples of life forms, and their characteristics in all kingdoms. Within each kingdom, the survey will include general characteristics in structure and function, classification, general modes of reproduction, economic importance and diversity of habitats. Students will study biodiversity at different scales; Strategies for Management of Biodiversity, Ex-situ strategies, and In-situ strategies, and associated challenges in management, etc.

### **BEVS 1103 Natural Chemicals in The Environment**

**Level:** First Year Semester One

This course is designed to introduce students to the relationship between exposure to environmental chemicals and human disease. The topics to be covered include; Epidemiological approaches to understanding disease causation; bio-statistical methods; evaluation of human exposure to chemicals, internal distribution, metabolism, reactions with cellular components, end biological effects; qualitative and quantitative health risk assessment methods

### **BEVS 1201 Introduction to Environmental Economics, Law and Policy**

**Level:** First Year Semester Two

This is an intensive course characterized with paper presentations, research and discussions. The course is designed to provide an introductory survey of the major legal approaches used to prevent environmental degradation. Emphasis will be put on current tools used to guide environmental law aspects and policy. Linkages to other important areas of law and socialpolicy decision making will also be explored, including science, the economy, and some basic and philosophical concerns.



### **BSBI 1201 Plant Diversity, Forms & Biosymantics**

**Level:** First Year Semester Two

This course is designed to provide an in-depth understanding of plant tissues and cells, their origin, and how plant cells and tissues help plants to adapt to different conditions in the environment. Topics to be discussed will include; plant structures, form and shape, and their role in adaptation of plants to different climatic conditions. The Anatomy of plant cells, tissues, and organs of both lower and higher plants, and their role in adaptation of plants to different climatic conditions.

### **BEVS 1201 Introduction to Biophysical Environment**

**Level:** First Year Semester Two

This course describes the relationship between the physical environment and the biological life forms within the environment. It will specifically provide a framework for students to understand the complexity between biotic, climatic, and edaphic factors that act upon an organism to determine its form, survival, and transformation. Topics to be covered will include; scope of the biophysical environment; composition and characteristics, Scales of biophysical environment, microscopic, community, ecosystem, biosphere, and global scales.

### **BCHM 1201 Environmental Chemistry**

**Level:** First Year Semester Two

The course provides a solid foundation in chemistry applications in environmental science, and how chemistry concepts can be used to solve environmental problems. Topics to be emphasized include; Atomic structure and periodic table, chemical bond and molecular configurations, states of matter, chemical thermodynamics, chemical kinetics, solutions, oxidation-reductions reactions, and transformation of chemical energy, chemical theories, Atmospheric compositions, heavy metals, and their characteristics, and chemistry applications in solving environmental problems.

### **BCON 1202 Economic Growth & Environmental Quality**

**Level:** First Year Semester Two

Environmental quality is a set of properties and characteristics of the environment, either generalized or local, as they impinge on human beings and other organisms. This course is designed to provide an overview of economic scenarios that may impinge on sustainable use of environmental resources, poverty effects on environmental resources; economic forces and how they impact on environmental quality, harmonization strategies between economic policies and environmental concerns, and discussion of the concept of economic sustainability and its applications, and approaches to integrate economic benefits into sustainable environmental planning.

### **BEVS 1202 Climate Change Science and Adaptation**

**Level:** First Year Semester Two

The course is designed to describe the natural and anthropogenic causes of climate change, trends in average global temperatures. The other effects like the Emission of Green House Gases on climate change, types of Greenhouse gases (GHGs), Concentration of GHGs in the Atmosphere, and Ozone layer depletion will also be dealt with.

### **BECS 2101 Ecology and Applications**

**Level:** Second Year Semester One

The course will include ecological principles, fundamental ecological theories, field ecological tools and methods, and practical application of ecological concepts in addressing the environmental problems. It will also engage students in practical investigation of ecological concepts in the field through practical exercises to master the application of useful concepts in ecological research.



### **BEVS 2101 Limnology of Natural and Polluted Waters**

**Level:** Second Year Semester One

This course is designed to help students understand the characteristics and methods of studying the limnology of natural and polluted aquatic ecosystems. The laboratory includes methods of biological, chemical and physical assessment such as field surveys of algal, macrophyte and benthic invertebrate diversity, toxicity assays, and analyses of stream flow.

### **BBUS 2101 Resource Planning & Environmental Enterprise Innovation**

**Level:** Second Year Semester One

The course is designed to provide an understanding of the techniques and skills in planning for enterprise resources, critical steps in resource planning, optimal use of resources, enterprise innovation and sustainability, innovation theories, creativity in environmental projects, Income generation innovations, challenges and the role of effective planning in sustainable enterprises.

### **BEWC 2101 Wildlife Conservation and Management**

**Level:** Second Year Semester One

This course is designed to introduce students to the basic principles in conservation and management of wildlife, its values, ecological interactions, and threats to its conservation. Measures for sustainable management and conservation will be discussed. Other topics to be discussed include; Wildlife laws and policies, conventions, Trade in wildlife and CITES guidelines, categories of wildlife protected areas, Ex-situ and In-situ conservation of wildlife and Human-wildlife conflicts and measures to mitigate the conflicts.

### **BCON 2101 Introductory Macroeconomics**

**Level:** Second Year Semester One

The course introduces students to Macroeconomics as the study of the aggregate economy, and it focuses on the cyclical pattern of aggregate output and co-movement of real and monetary aggregates in general equilibrium. It also introduces a series of basic models used in modern macroeconomics, with emphasis on dynamic general equilibrium modeling tools and techniques for building theoretical models. In this course, the concept of general equilibrium is developed in a SGE model, with a focus on the labor market. A DGE model incorporating consumption, a saving and investment choice is then used to analyse the real economy. Four monetary business cycle models are described, including Classical, Keynesian and New Keynesian models. Topics in monetary policy and unemployment and their relationship to sustainable development will be discussed.

### **BGEO 2101 Geomorphology**

**Level:** Second Year Semester One

This course embraces the historical development in geomorphology, geomorphic contributions of some scholars or schools of thought, geographical cycles, theories such as Plate tectonics, sea floor spreading and continental drift, Earthquakes, Weathering, and Drainage, water sheds, and catchment area, and coastal geomorphology. The course also focuses on climatic processes relevant to geomorphology, glacial and desert deposits; geomorphic hazards, their types, detection, prevention and protection.

### **BSOC 2101 Communication in Environmental Science**

**Level:** Second Year Semester One

This course is designed to help students develop skills and strategies for effective communication of scientific issues. It involves discussions of how to communicate

science, both orally and in written form, to expert and non-expert audiences. This will include evaluation of case studies involving presentations that are considered to be effective and those that are not, and will provide guidelines on how to avoid pitfalls that afflict many public speakers on scientific issues. Students will prepare both oral and written reports that will be critiqued for effective communication.

### **BEVS 2102 Plant Ecology and Conservation**

**Level:** Second Year Semester One

This course examines the relationship between plants and their environment with other organisms. The topics to be discussed include: patterns of distribution and abundance and factors affecting them. Physiological plant interactions with environment (Photosynthesis, Chemosynthesis); conservation issues; human use of plants-indigenous cultures, and economically as food; medicine, and building materials are also discussed, including modern approaches to plant conservation for species within and outside protected areas.

### **BEVS 2102 Pest Management and Control**

**Level:** Second Year Semester One

The course is designed to cover the concept of integrated pest management as applied to the mitigation of invasive pests in agricultural and forest ecosystems. The course describes different principles of integrated pest management approaches that can be applied to effectively managing and controlling invasive pests in an environmentally friendly manner.

### **BCON 2102 Natural Resource Economics**

**Level:** Second Year Semester One

This course is designed to explore the economics of natural resources. Theoretical problems and their applications with natural resources are discussed in three aspects: (1) their inherently dynamism; (2) their prevalence of externalities and consequent market failures; and (3) their fundamental economic rent. The common theme in the study of each of these resources is the optimal utilization of a resource stock over time. The circumstances over which the rate of natural resource exploitation in a market driven economy will resemble the socially optimal rate and how resource use is affected by economic and institutional factors will be examined. The concept of sustainability and economics of sustainable development will also be analyzed.

### **BEVS 2103 Environmental Monitoring, Assessment and Experimentation**

**Level:** Second Year Semester One

This course is designed to introduce students to the general principles of environmental monitoring and assessments for air, water, soil and sediments. At the end of this course, the students are expected to describe and compare environmental monitoring processes among different actors, explain principal steps of a monitoring program, evaluate the reliability and comparability of monitoring programs and quality control, describe and evaluate different biological monitoring methods, and prepare an environmental monitoring assessment report.

### **BCON 2103 Analysis of Natural Resource Policy**

**Level:** Second Year Semester One

This course introduces students to the methods and processes used to analyze natural resource policies and programs, and to distinguish among the different techniques used. The course places special emphasis on the practical application of policy analysis principles and concepts to address contemporary natural resource and environmental

problems, taking into consideration the politically charged environment within which decisions over the use, management, and protection of resources occurs. The course also examines the context and consequences of collective decisions regarding the allocation and distribution of natural resources with specific attention to the nature of institutional arrangement, and attributes of goods.

### **BECS 2103 Management of The Biophysical Environment**

**Level:** Second Year Semester One

The course is designed to provide the basic management principles to biophysical environments, including terrestrial and aquatic ecosystems. It will survey the ecology of different types of biophysical environments (biomes), their characteristics, distinctive features, and geographical distribution all over the world. An interdisciplinary approach towards sustainable management of biophysical environments is discussed from an ecological, social and economic perspective with emphasis to ensuring continuous provision of social, economic, and ecological goods, values and services from the biomes. Vital tools such as Conventions, Treaties, and national tools like EIAs, Gazettement of Protected areas, User rights, Environmental Indicators, Oil, Gas and Nuclear Exploration guidelines will also be discussed.

### **BCON 2103 Introduction to Econometrics**

**Level:** Second Year Semester One

This course is designed to help students demonstrate understanding of introductory knowledge of applied econometric techniques to economics, accounting and financial analysis. Topics to be covered include; nature of econometrics. Ordinary Least Squares. Interpretation and assumptions of basic modes. Multivariate regression analysis. Problems in regression analysis: multi-collinearity, autocorrelation, heteroscedasticity. Omitted variables.

### **BECS 2104 Vertebrate Ecology and Structure**

**Level:** Second Year Semester One

The course is designed to cover origins of vertebrates and the subsequent major advances in the evolution of aquatic, terrestrial and aerial groups. Emphasis is put on evolution, diversity, feeding, respiration (aquatic and aerial), locomotion (aquatic, terrestrial and flight) and reproduction but with an emphasis on terrestrial groups.

### **BEVS 2104 Principles of Environmental Toxicology and Pathology**

**Level:** Second Year Semester One

The course deals with the basic and applied aspects of toxicology and pathology. It includes those principles most frequently invoked in a full understanding of toxicological events, such as dose-response relationships, and is primarily mechanistically oriented. An additional major focus is on the site of action of toxins. Toxic agents are grouped by chemical and/or use characteristics.

### **BEVS 2105 Ground Water Hydrology and Contamination**

**Level:** Second Year Semester One

The course is designed to focus on earth science concepts such as water cycle, ground water pollution, Hydrology and aquifer properties: aquifer types and characteristics, ground water modeling; Equations of ground water flow, ground water contamination; Guidelines for assessment of contaminated land, case studies, Risks in using contaminated ground water; MODFLOW, and Dewatering; map making and interpretation, modeling ground water contamination, understanding ground water concentrations and testing pesticide concentrations in groundwater, drawing Iso-concentration maps, making Iso-concentration maps, Damage Assessment in Ground water, ground water cleanup options, and mitigating damages, and introduction to Ground water engineering.

### **BSBI 2106 Principles of Microbiology & Immunology**

**Level:** Second Year Semester One

The course describes the interaction of microorganisms with their environment with emphasis on plant- microbe interactions, nutrient cycling and waste treatment. Topics to be covered include; Decomposition, biogeochemical cycles (c, n, s), p metabolism, microbial interactions, plant-microbe interactions, sewage treatment, microbial adaptations to specific environments, methods of studying microbes in natural environments, gene probes, microbial genomics.

### **BEVS 2106 GIS and Spatial Analysis in Environmental Science**

**Level:** Second Year Semester One

The course introduces students to basic components of GIS, its capabilities, functionalities in collecting, transforming and spreading spatial data from the real world. It deals with spatial operations, spatial scales, mapping, GIS data input and output, data management models, and environmental modeling; GIS case studies of resource inventory, Maintenance, resource monitoring, modeling and analysis of spatial data including resource management.

### **BEVS 2107 Strategies of Plant Adaptation**

**Level:** Second Year Semester One

The course is designed to describe different strategies used by plants to survive in various ecological environments. The strategies range from physiological, anatomical and morphological, to genetic and environmental modifications that help plants to enhance continuity of their existence in specific habitats of ecosystems.

### **BEVS 2108 Energy Resources and The Environment**

**Level:** Second Year Semester One

This course is designed to introduce the various sources of energy and their exploitation and the associated environmental impacts. At the end of the course; the students are expected to analyze energy supply and consumption trends; explain the impact of policy decisions on energy trends; describe energy related environmental impacts and describe sustainable renewable energy technologies. The topics to be covered include; traditional energy practices and their environmental impacts; (Wind; water; wood; coal; oil, natural gas). Nuclear energy and its environmental impacts (Fission, fusion, radiation, radon). Renewable energy resources (Solar energy, wind energy, hydroelectric power, geothermal energy, tidal energy, wave energy, and biomass energy).

### **BPOL 2201 Environmental Politics and Governance**

**Level:** Second Year Semester Two

The course is designed to provide an insight into the political and governance issues that impact on sustainable use and management of environmental resources for sustainable development. The course provides an introduction to global environmental politics and policy. It examines the issues, actors, and institutions that shape global environmental politics, as well as the socioeconomic forces that strengthen or undermine global environmental sustainability. It helps students to critically evaluate core theoretical frameworks in the field of environmental politics and apply these frameworks to the real environmental issues. Topics to be covered include; Introduction to global environmental politics and policy, conflicting view in definitions, Domestic determinants: Environmental values and attitudes, environmental behavior, social activism and environmental movement, electoral politics and the environment, political economy of global environmental policy, International determinants: Cooperating on global environmental policies, World politics and international cooperation, international environmental regimes, Non-state actors in global environmental politics, NGOs, Secretariats, and their credibility in solving environmental problems.

### **BEVS 2201 Plant and Environmental Pollution**

**Level:** Second Year Semester Two

The course is designed to provide in-depth understanding of the effects of environmental pollution on plant health, causes of plant pollution, and ecological solutions to plant environmental pollution. Some of the topics to be covered will include; Soil pollution and its effects, Acid rain effects, Water pollution, Eutrophication and its effects on plants, types of pollution, Sewage pollution, impacts of radioactive pollution on plants, and measures to mitigate effects of environmental pollution on plants.

### **BIOP 2201 General Plant Pathology**

**Level:** Second Year Semester Two

The course describes diseases in plants, classification of plant diseases, history of plant pathology, discovery of the role of fungi, control of plant diseases, physiology of plant diseases, genetics of resistance to diseases, bacteria in plant diseases, nematodes in plant diseases, virus in plant diseases, protozoa in plant diseases, mycoplasmas in plant diseases, genetic engineering and plant pathology, significance of plant diseases, kinds and amounts of losses, effects of changes in agricultural methods and in human society on the development and spread of plant diseases, decrease and crop production.

### **BEMM 2201 Planning, Monitoring & Management of Protected Areas**

**Level:** Second Year Semester Two

The course is intended to introduce students to the main topics that managers of protected areas need to know, both to establish a representative network of protected areas and to manage existing areas on a scientific and economically sustainable basis. It concentrate largely on those protected areas that are uninhabited and/or from which settlement has been excluded, and therefore in what traditional conservationists consider “high categories” of protection, techniques for integrating people living outside protected areas into conservation of those protected areas, and in achieving conservation in inhabited protected areas of “lower categories” of protection or in areas with no formal protection status. This course also introduces the principles in effective monitoring of Protected Areas (PAs). Role of monitoring and management in project management cycles, levels of monitoring, developing a monitoring framework for protected areas, communicating monitoring results to key stakeholders in protected areas, challenges in monitoring and management of PAs, identification and mitigation of threats to PAs, Conflicts in PAs management, and Developing Management Plans for PAs, Participatory processes in Developing management plans.

### **BIOC 2201 Genetics and Molecular Biology**

**Level:** Second Year Semester Two

The course is designed to investigate the contributions microorganisms in gene regulation and genetic structure; integrate knowledge from biochemistry, molecular biology, and genetics with microbiology. It will also enable students to gain critical perspectives on molecular genetics; introduce students to current problems in gene control and expression, and provide students with sufficient background to evaluate critically the current literature in microbial and molecular genetics.

### **BECS 2201 Waterborne Disease Ecology**

**Level:** Second Year Semester Two

Water borne disease is contributing to millions of deaths worldwide every year. In both developed and developing countries the demand for clean drinking and bathing water is increasing which makes the control of water borne disease a significant role. This course is designed to help students get acquainted with ecological principles towards

preventing water borne diseases, types of water borne diseases in the tropics, causes, effects, and treatment strategies for water borne diseases. Other topics to be covered will include; Water Supply and Distribution, Drinking Water and Waterborne Disease, Environmental detection of water borne diseases, Dracunculiasis (Guinea Worm Infestation), Schistosomiasis; Cryptosporidiosis, Schistosomiasis, legionellosis and viral gastroenteritis epidemiology of water borne diseases.

### **BRES 2201 Biostatistics and Experimental Design**

**Level:** Second Year Semester Two

This is a practically oriented course to introduce students to methods of statistical analysis. Topics will include; statistics of central tendency and dispersion, probability, correlation, regression, hypothesis testing, t-test, analysis of variance non-parametric tests and Chi Square. Correlation and Regression, Software packages-SPSS. Introduction to systematic reviews and meta-analysis; Measures of agreement (Kappa Statistics & ICC); Logistic regression, Survival analysis. Epidemiological Study design- Descriptive, Analytical and Experimental; Basic experimental designs – CRD, RBD, Repeated measures factorial, cross over. The students will use standard computerized methods, as well as re-sampling methods

### **BCON 2201 Intermediate Microeconomics**

**Level:** Second Year Semester Two

This course is designed to provide an overview of firm operation in factor markets, analysis of international trade and capital markets and how they affect environmental policies. Other topics include; Consumer theory, theory of the firm: Competition, Monopoly, General equilibrium and welfare, game theory and its applications; (imperfect competition, moral hazard and contracts, and Information problems). Microeconomic concepts and analysis; demand analysis, and introduction to microeconomic applications to address problems related to environment and economic policy

### **BINT 3302 Internship /Industrial Training II**

**Level:** Third Year Semester III (Summer Period)

This is a field attachment exercise to apply theory into practical situations in society. Students will be attached to an organization of their choice provided they can apply environmental theories in activities of the organization. All students pursuing Bachelor of Science in Environmental Science, in all its specialties will be required to go for an internship period for three months, in the summer period of second year. The purpose of this internship is to expose students to the practical knowledge in the fields that enhances their research skills and expertise in the major fields of environmental sciences. An internship Seminar will require students to share their experiences and lessons learnt from their areas of internship in a seminar. The presentation in this seminar will be assessed out as follows:

### **BCON 2202 Economic Statistics**

**Level:** Second Year Semester Two

The course is designed to provide a strong foundation in probability, and statistics. It further provides students with skills, methods and techniques used in collection, processing, compilation, dissemination and analysis of economic data. At the end of this course, the students should be able to: describe different sets of data, calculate and interpret sampling distributions, form and test well defined hypotheses, interpret results of a simple regression analysis, and calculate confidence intervals. Topics to be covered include; elements of probability theory, Sampling theory, Statistical estimation, and hypothesis testing.

### **BRES 2202 Environmental Independent Study**

**Level:** Second Year Semester Two

This is a second guided independent study to build on the previous topic or studies undertaken. The student must also arrange for a faculty supervisor to develop a course proposal for a second independent study well in advance before the semester begins. A student can choose any environmental science topic for study or continue to build on the previous study topic on approval by the identified faculty, provided he/she has a pre-requisite for the course.

### **BIOP 2202 Control of Plant Diseases and Environmental Safety**

**Level:** Second Year Semester Two

The course is deals with Introduction, objectives and strategies for micro and macro-biological control agent selection, predator-prey theory and analytical models, practical approaches to evaluation of natural enemies, classical biological control, inundation and bio-pesticides, augmentation and inoculation with other natural enemies, collection and preservation of organisms, histological preparation, scientific illustration and photography.

### **BEVS 2202 Environmental Water Chemistry and Quality**

**Level:** Second Year Semester Two

The course presents fundamentals of chemistry as applied to water industry, and it makes a solid foundation for understanding advanced theories involving chemical reactions in water, and their impact on environmental resources. The topics will include the theory behind pH, alkalinity and titrations. These topics are supported by concepts such as chemical equations, equilibriums, acid base theory and buffering capacity. Basic topics covered include; Polar nature of water; Cycling of water and residence time; Analytical method; Equilibrium constant expressions; Chemical reaction equation and; Arrhenius and Bronsted-Lowry acids and bases; Ionization constant reactions and expressions; Acids and bases; Measuring pH; Filtration; Alkalinity; Buffering capacity of water; Water quality and water treatment; and Solubility-product expressions

### **BEVS 2203 Chemical Ecology: Principles and Practice**

**Level:** Second Year Semester Two

The course covers the theories behind chemical interactions in nature, and how they affect abundance, and distribution of organisms. Such interactions include; chemical defense and communication. It also helps students to understand how these interactions have evolved and the biosynthetic origin of the molecules mediating the interactions. Lab work for this course is designed to provide an insight on how active substances can be isolated and identified and also tested for their biological activity. Sustainable monitoring systems and methods to suppress harmful chemicals are discussed.

### **BIOP 2203 Human-Microbe Interactions and Environment**

**Level:** Second Year Semester Two

The course is designed to explore the interactions between microbes and man, and their critical role in the global ecosystem. The diversity of microbes in form and function and how they evolved from primitive life forms to colonize new environmental niches, their interaction with plants, insects and man will be examined. Also appropriate strategies to mitigate humanmicrobe interactions will be discussed.

### **BEVS 2204 Cost-Benefit and Investment Analysis**

**Level:** Second Year Semester Two

The course is designed to introduce the basic concepts regarding benefit and cost in both monetary and non-monetary terms. It exposes students to actual problems, public



projects, socio-economic studies, and major private investment decisions and analysis. Topics to be covered include; Economic life, cash flow diagrams, views point and mutual alternatives. Interest formulas-equivalence. Present worth, Annual worth and Incremental analysis in investment decisions. Bond evaluations using present worth, Benefit-Cost Ratio, Rule of Delta. Internal rate of Return (IRR), Descartes' rule, Nostrom's condition, Bergman's rule, Depreciation, taxation and Inflation in Cost-Benefit Analysis. Multiple Alternatives, Sensitivity analysis, capital budgeting. Socio-economic studies, and International projects will be discussed.

### **BCON 2205 Intermediate Macroeconomics**

**Level:** Second Year Semester Two

This course is designed to gain an intermediate level of knowledge of macroeconomic models. The course applies a wider range of theoretical models to the study of economic and environmental problems in macroeconomics and use more advanced techniques in the application of economic models to the study of macroeconomic problems. Topics to be covered include; National income; production distribution and allocation; money and inflation; adaptive and rational expectations; policy effectiveness under rational expectations; economic fluctuations; aggregate demand; aggregate supply; macroeconomic policy debate and how it impacts on the sustainable use of environmental resources.

### **BGEO 3101 Meteorology and Climatology**

**Level:** Third Year Semester One 03 Credit Units

The course covers introduction to meteorology. It displays the relationship between meteorology and climatology, and the role of meteorology in monitoring the changing patterns in climate and weather forecasting and mitigation. Emphasis will be put on the role of meteorological information towards agro-economies, engineering sector and development plans. Climatic behavior and its determinants, global circulation, weather forecasting, climatic classification and their influence on Man's activities will also be examined.

### **BGIS 3101 Environmental Modeling**

**Level:** Third Year Semester One

The course provides an insight into the application and development of models for terrestrial ecosystems. It also introduces the concepts of model development, model calibration, uncertainty analysis and validation. A general insight into the use of computer models, their strengths, limitations for critical analysis and prediction is examined.

### **BAGS 3101 Project Evaluation and Analysis**

**Level:** Third Year Semester One

This course is designed to help students understand the difference between projects and tasks, management 'cycles', project scope, project information, project communication, planning, implementation, and project evaluation. Some of the concepts to be discussed include; project; project management process, project management tools & techniques; Project Plans and project team frameworks

### **BEVS 3101 Environmental Entomology**

**Level:** Third Year Semester One

The course deals with Insects and their effects on man - beneficial and harmful; Distinguishing characteristics of arthropods and insects; Classification and mode of action of insecticides; Types of insecticide formulations; Insect phylogeny and distinguishing characters of orders; Survey of orders of economically important insects



in the tropics; External anatomy -cuticle, head and mouth parts; External anatomy - thorax, abdomen, legs and their modifications; Internal anatomy - digestive, circulatory, excretory, respiratory and muscular systems; Growth and development in insects - eggs and metamorphosis; Types of metamorphosis; Larval and pupal types; Animal classification and nomenclature; Insecticide safety; Origins of pests; Ecological basis of pest control; Importance of pest identification; Methods of insect control; Integrated pest management; Insect pests of rice; Insect pests of sugar cane; Insect pests of man; Insect pests of coconuts; Insect pest of livestock and control; Insect pests of vegetables; Application of insecticides

### **BCON 3101 Advanced Microeconomics**

**Level:** Third Year Semester One

This course is designed to cover topics of microeconomics from consumer and producer behavior, partial and general equilibrium, behavior under uncertainty, game theory and asymmetric information with emphasis on how they affect sustainable use of natural resources and development of policies. Specific topics to be covered include; preferences; choice; and demand; partial production; partial equilibrium; expected utility; static and dynamic games; market power and product differentiation; adverse selection, signaling and screening; principal agent problems; general equilibrium and welfare; existence and uniqueness of equilibrium under uncertainty; interporal equilibrium and their applications to the economics of natural resources and policy.

### **BMCR 3101 Environment Microbiology**

**Level:** Third Year Semester One

The course is designed to provide an overview of basic and applied microbiology. At the end of the course, students are expected to describe the nature of cellular structures of microorganisms, describe mechanisms of cellular metabolism in microbes, explain the mode-of-action of major classes of anti-biotics, and mechanisms of microbial resistance to these antibiotics, describe common approaches used in preventing microbial growth, explain properties of microbial pathogens ad fundamental constituents of human immune system, and also perform microbiological laboratory analysis, and interpret data from microbiological analyses. Topics to be covered include; microbial structure, growth and metabolism, bacteria, viruses, fungi, protozoa, helminthes. Nutrition, metabolism and factors influencing microbial growth. Infectious diseases, prevention, vaccination and treatment. Microbial disease, immunology, environmental, environmental microbiology, biotechnology, control of microbial populations; disinfection; cold, thermal and filtration sterilization; antibiotic resistance; sensitivity testing. Antibiotic, antifungal, anti- protozoal, anti-viral drugs, antiseptics, and vaccines

### **BEVS 3102 Air Quality Management and Pollution Control**

**Level:** Third Year Semester One

The course describes anthropogenic impacts on the atmosphere and examines different approaches to manage air quality. At the end of the course, students are expected to describe the chemistry of unpolluted atmosphere, describe the impact of anthropogenic emissions on climate and ozone layer, identify and describe sources and nature of emissions to the atmosphere, and evaluate different monitoring methods for air pollutants.

### **BCON 3102 Land Economics, Planning and Development**

**Level:** Third Year Semester One

The course is designed to provide an understanding of the functioning of markets in land, the way land use systems functions, and the taxation of land. Emphasis is put on the

following topics; received theory and market inefficiency. Factors affecting the supply of land for development. Compulsory purchase and other forms intervention. Information and uncertainty. Land banking and land development. The welfare economics of planning. The economic consequences of planning. The taxation of land and property.

### **BEVS 3103 Sustainable Land Utilization and Planning**

**Level:** Third Year Semester One

The course is designed to provide students with an understanding of principles of land use planning and of the significance of appropriate land use planning for sustainable environmental management. The course covers land use planning, urban growth and sustainable development. Land division and conversion. The environmental and human impacts of urban development. Land use issues at the urban-rural fringe. Land capability assessment as a planning tool. Land use planning and regulation. Environmental regulation. Non-regulatory means of resolving land use conflicts. Planning for sustainable environments, and general principles of sustainable planning systems.

### **BEVS 3103 Agro-Chemicals and Environmental Safety**

**Level:** Third Year Semester One

The course describes the chemical and physical properties, formulations, biological effects and factors affecting the effectiveness of commonly used agro-chemicals/pesticides. Classes of chemical insecticides, formulations the Target and transfer of insecticides, application equipment, the fewer/user requirements, insecticides resistance, Eco-toxicology, and rational insecticides use.

### **BEVS 3104 Environmental & Social Impact Assessment**

**Level:** Third Year Semester One

This course is designed to introduce students to the purpose and methodology of Environmental impact assessments (EIAs). It presents EIA as one of the practical tools in environmental management. By the end of the course students are expected to describe process and sequence of steps in EIA; explain implementation of conservation evaluation techniques; critically review key case histories of EIA in Uganda and other countries; and prepare a coping and appropriate assessment reports. Topics to be covered include; definition of EIA; purpose and limitations. Statutory requirements. Approaches and methods. Standardization and quality control. Preparation of EIA reports and recommendations. Preparation of environmental impact statements.

### **BEVS 3105 Methods in Ground Water Assessments**

**Level:** Third Year Semester One

The course is designed to introduce students to vital practical techniques and skills in lab and field ground water studies. Topics to be covered include; role of ground water sampling, ground water hydro geochemistry, designing a ground water sampling plan, drilling and bore construction, ground water sampling tools and equipment and their uses, ground water sampling methods. Gas sampling at water bores, Decontamination and procedures, quality assurance and quality control, Sample identification, transport and storage, occupation health and safety.

### **BEVS 3106 Ecological Techniques**

**Level:** Third Year Semester One

This course involves the identification and ecology of plant and animal species in the tropical ecosystems. This is an intensive course that will require students to travel to different tropical ecosystems to observe, study, and specifically identify wild flora, fauna and habitats. The course learning from both lecture and practical experience will take place in the field preferably at a biological field station.

### **BEVS 3107 Climatic Processes and Biophysical Environment**

**Level:** Third Year Semester One

This course describes the principles, aims and scope of climatology and the environment. The elements and controls of climate and weather; dynamics of earth's moisture; the dynamics of pressure and wind systems. Condensation and precipitation processes. Seasonal Variations in temperature, day-length, radiation, rainfall, and evapotranspiration, and the relationship between climate and biophysical environment.

### **BEVS 3109 Forestry and Biodiversity Management**

**Level:** Third Year Semester One

This course is designed to help students acquire knowledge and skills in the management of forest ecosystems and biodiversity for sustainable development. More emphasis will be put on strategies to develop practical policies for sustainable use of forests and biodiversity to meet the ecological social and economic demands. Topics to be covered include; Values of forests and biodiversity resources, Impact of disturbances on forest biodiversity, goods and services, management challenges facing the forestry sector in the tropics and other areas, management of biodiversity outside protected areas, Biodiversity monitoring strategies, Principles in forest management, Forestry policies, legislation and implementation, Key stakeholders in forestry and biodiversity management, Biodiversity hotspots, threats to forests and biodiversity, critical conventions in forestry and biodiversity management, Utilization of forestry resource, and sustainable strategies for management of biodiversity and ecosystems.

### **BEVS 3110 Environmental Hydrology and Aquatic Ecosystems**

**Level:** Third Year Semester One

The course will survey a diversity of aquatic ecosystems, their characteristics, composition, and ecological interactions. It will further examine the biological and ecological characteristics and economic importance of surface waters, including lakes, streams and wetlands. Specific topics will include light and heat in aquatic environments, dissolved gasses, nutrients, phytoplankton and periphyton dynamics, consumer dynamics and the impact of human society on natural surface waters, and current issues in management of global, and specific local aquatic environments, and strategies for sustainable management of aquatic environments, precipitation, types, measurements, determinants, distribution over time and area, snowfall, evaporation, and run-off. Other topics to be covered include; hydrological cycle, and hydrological imbalance. The influence of human activities on earth waters, and measures to mitigate hydrological changes will also be covered.

### **BECS 3201 Animal Physiology and Adaptation**

**Level:** Third Year Semester Two

This course will use a systematic approach to the study of animal physiology. It covers the structure and function of the animal body, cells and tissues, as well as the skeletal, muscular, nervous, endocrine, circulatory, digestive and urinary systems with more emphasis on how the physiological changes in animals help them to effectively or ineffectively adapt to different ecological environments. Physiological adaptation in animals.

### **BIOP 3201 Plant Health, Protection and Environment**

**Level:** Third Year Semester Two

This course is designed to help students to acquire skills, knowledge and techniques in identification of new pests, and diseases affecting plants and the environment. The students will gain an understanding of specialized techniques used in diagnosis of pests

and diseases, testing imported and exported plants, diagnosis of pests and diseases on plants and plant products, test methods for exotic pests, and diseases; biosecurity issues, including test procedures, risk analysis, and pest epidemiology; quarantine, incursion, and surveillance. Principles; guidelines and practices. The above knowledge and skills are necessary to ensure that students acquire knowledge for developing environmentally friendly and cost-efficient plant protection methods

### **BEWS 3201 Wetlands Resources Management**

**Level:** Third Year Semester Two

This course is designed to explore the Understanding of Wetland ecosystems: The history of wetlands, concepts and principles are covered; Emphasis in this course is put on Wetland Classification, ecology; methods for National Wetlands Inventory and surveys; laws and policies and Wetland Delineation. Other topics to be discussed include; Wetland Hydrology, Wetland Soils, Wetland vegetation and Adaptation; Wetland Assessment and Monitoring; Stressor Identification, Natural Disturbance Impacts, Anthropogenic Impacts; and Hydro geomorphic models for Wetlands, including Predictive and Probabilistic modeling techniques. Regional and National Wetlands Assessments models; Wetland Restoration, Wetland Creation and Treatment are also discussed.

### **BGEO 3201 Fluvial Processes and Natural Resources**

**Level:** Third Year Semester Two

The course introduces students to basic mechanics of river channels to erode, and transport debris. It represents a balance between driving and resisting forces. It embraces the potential energy to fluid flow and how much energy is considered within the river system. Emphasis will be put on extent of human modification on river channels and its impact on freshwater ecosystems in rivers, lakes, and wetlands.

### **BENV 3201 Environmental Soil Science**

**Level:** Third Year Semester Two

The course deals with historical development of soil science, structure, properties and composition of soils. It focuses on soil components; Primary minerals; Secondary minerals; Organic components; Rocks and their classification. Geological processes such as Weathering - mechanical and chemical processes are also discussed

### **BGIS 3201 Remote Sensing of the Environment**

**Level:** Third Year Semester Two

The course introduces remote sensing techniques and their capabilities in spatial analysis. It involves the use of satellite images in deriving information about objects on the surface of the earth. It displays the relationship between GIS and remote sensing. Emphasis will be put on the sensitivity of reflectance, Mapping, Monitoring temporal and spatial trends, image processing function and transition in area coverage and use of land sets. Methods of data acquisition, classification will be of great importance.

### **BRES 3201 Research Project**

**Level:** Third Year Semester Two

The course is designed to enhance laboratory skills and the ability of students to identify, analyse and solve problems in scientific research, and their skills in communicating research results. The course emphasises an original research project on a topic in the field of Environmental science in respective specialisations, performed under the supervision of an appointed faculty. The students will be expected to prepare a detailed report on their project work in accordance with the approved guidelines provided by the concerned department of Bugema University.

### **BCON 3201 Environmental Economics**

**Level:** Third Year Semester Two

The course introduces environmental economics and economics generally. It is aimed at helping the students develop an ability to apply economic thinking to environmental problems. The course considers various aspects of environmental economics including why pollution occurs and how policy can be designed and implemented to deal with it, how to place economic value on the environment and how to understand sustainable development in microeconomic terms. The course also covers the relationship between the economy and the environment; processes through which environmental policy can be designed, implemented and evaluated in relation to environmental pollution; and the issues of environmental valuation, which is a rapidly growing area of research in environmental economics. In all parts of the course, the major emphasis is to understand the linkage between theory and practice through topics such as environmental valuation, techniques used in environmental valuation, challenges, benefits and limitations, environmental policy making, global warming, the sustainable use of resources (such as fish and forests) and environmental pollution. Modeling complex economic systems, including the interactions with the natural environment and its resources. Methods of determining efficient level of pollution; Pollution Instruments for policy makers; natural processes affecting the environment; the role externalities and public goods play for environmental policy making; and Methods to determine the optimal use of renewable and non-renewable resources.

### **BSOC 3201 Issues in Ecosystems Management and Biodiversity**

**Level:** Third Year Semester Two

The course is designed to explore critical issues that affect sustainable use and management of biodiversity and ecosystems. It also covers challenges in biodiversity and sustainable ecosystem management, Socio-economic benefits of Biodiversity and Ecosystems in LDCs, setbacks to biodiversity contribution to development, Key stakeholders in Biodiversity and Ecosystem conservation, Natural resources conflicts and mitigation, threats to ecosystems, developing sustainable local and national policies for Biodiversity, strategies for sustainable use of Biodiversity and ecosystems to spur development goals will be discussed.

### **BCON 3201 Environmental Resource Economics**

**Level:** Third Year Semester Two

The course is designed to examine the environmental issues from an economic perspective and provide an overview of the economic tools that are used to address environmental problems. Emphasis is put on principles of environmental policy: Efficiency and sustainability; Market failure and the need for environmental policy; the Coase theorem; Instruments of environmental policy: Efficiency advantages of market instruments; applications of market instruments, Valuation of the benefits of environmental policy; Biodiversity and its benefits (social, economic and ecological); International trade in polluting goods; Mobile capital: Climate change policy and the theory of international environmental agreements.

### **BIOC 3202 Molecular and Cell Plant-Microbe Interactions**

**Level:** Third Year Semester Two

The course is designed to introduce students into the theory and methods for analysis of plant-microbe interactions on the cell biological and molecular level. This is aimed at exploring the importance of plant-microbe interactions, and their relevance in natural ecosystems. Emphasis is put on the identification of aquatic insects; symbiotic relationships between plants and microbes, such as in nitrogen fixation and mycorrhizal associations; the relationships between plants and pathogenic microbes and the methods used by microbes to cause disease.

### **BPOL 3202 Environmental Governance and Sustainable Development**

**Level:** Third Year Semester Two

The course explores the ways in which uses of the natural environmental resources are regulated, from policy, and law to market-based approaches, through the concept of governance for sustainable development. It also considers how relationships between capitalist societies and the natural resources and environments on which they depend are currently organized, especially through law, regulation, policies, and sustainability discourses.

### **BCON 3202 Environmental Innovation & Sustainability**

**Level:** Third Year Semester Two

The course provides an insight into what entrepreneurship, Innovation and sustainability are, and their role in business in the Agriculture and Food sector in Uganda, East Africa and beyond. Topics to be emphasized include: Innovation and Entrepreneurship - a perspective from a global corporation; Idea generation, mind-mapping, roadmaps for the venture process, exploring the industry perspective; The business planning process; Communications and team building; Intellectual property; Opportunity recognition; Market analysis; Understanding finance and seeking resources; Incubation, finance, state supports, operational considerations; Sales and marketing; The role of food regulation in food and business. The sustainability concept, its role in business sector, dimensions of sustainability, strategies to ensuring sustainability in Agriculture and Food enterprises.

### **BEVS 3203 Environmental Risk Assessment**

**Level:** Third Year Semester Two

This course is designed to explore the techniques used in environmental risk assessment and auditing. At the end of this course, students are expected to produce a flow chart of major steps in environmental risk assessment; describe health and ecological risk assessment methods; critically evaluate the use and application of risk assessment in a range of scenarios; describe the evaluation and management of risks in an industrial setting, and explain the procedures for an environmental audit. The topics to be covered include; definition and purpose of environmental audits. Procedures for undertaking a risk audit.

### **BEVS 3204 Geological Resources and Environment**

**Level:** Third Year Semester Two

This course is designed to give an overview of the origin and status of non-renewable resources and their role in society, the different extraction methods used; impacts of extraction on the environment, contamination and degradation of soil. At the end of this course; the students are expected to recognize the importance of earth's geological resources to society; describe the geological environments of accumulation and formation of coal and natural gas and the metallic ores; explain characteristics of construction materials; methods of extraction; effects of mining on air; and describe the natural and anthropogenic processes of land and soil degradation.

### **BEVS 3205 Soil Science and Water Conservation**

**Level:** Third Year Semester Two

The study of soil chemistry is essential in understanding plant growth which is one of the most important aspects in any environment. This course deals with Soil-ion interactions; soil and plant composition; ion-water interactions; solute-solute interactions; solubility product, soil reaction coefficients; crystal chemistry of silicates; layer silicate structures; kaolins; smectites; vermiculites; micas; chlorites; accessory minerals; soil organic matter; charge development in soils; rates of weathering and soil development; cation exchange;



cation exchange equations; anion exchange; adsorption isotherms; classification and determination of soil acidity; lime requirement; origin of salt affected soils; categories of salt affected soils; irrigation f; oxidation and reduction in soils; flooded soils; major exchangeable cations; major anions. Physical makeup of the soil in relation to problems of soil management, and how environmental factors that affect soil properties. Other aspects such hydrological cycle; Watershed management; Soil erosion and conservation schemes will be discussed; Water and wind erosion; Management of losses of soil, water and nutrients due to erosion; Agronomic methods of erosion control; Soil Conservation practices; Principles of water conservation; Water storage structures; Water harvesting and small scale irrigation; Drainage techniques; Success and/or failure of soil and water management techniques

### **BEVS 3206 Biodiversity Valuation and Bio Trade**

**Level:** Third Year Semester Two

The course deals with application of different tools to attach value to biological resources. It is designed to provide an in-depth understanding of the value of biodiversity to the life support systems and to the social, economic, and ecological aspects of life on earth. Topics to be discussed include; Compounding, discounting, Cost-Benefit Analysis, and techniques of valuation for natural resources. The bio trade opportunities, its guidelines, benefits and setbacks for sustainable income generation and economic development based on biological resources will be discussed.

### **DBET 1101 Biomedical Engineering & Medical Lab Equipments**

**Level:** First Year Semester One

This course is designed to introduce the students to the principles and concepts of biomedical engineering. Students gain an understanding of the range and depth of the discipline and their rate in the contemporary healthcare environment. Topics to be covered include; engineering principles, tools for medical engineering, techniques in maintenance, operation of medical equipment; Service description and application, technology and engineering for medical equipments; repair and installation of medical equipments, calibration and instrumentation of medical equipments.

### **DBET 1102 Microbiology and Infection Control**

**Level:** First Year Semester One

The course introduces students to basic principles of biosafety in the laboratory environment. Basic concepts of microbiology, laboratory biosafety and infection control will be introduced. The course also focuses on general safety measures, personal safety and occupational health and safety matters. Disease causing organisms that are important in humans including bacteria, viruses, fungi and parasites are discussed with emphasis on infection control in health settings, risk assessment and management. The general skills and techniques in laboratory technology of different laboratory settings including major themes such as laboratory ware, their uses, Cleaning of laboratory ware: Specimen containers: Types of specimen containers: Preparation of the different containers: Laboratory Safety: organization and layout of the laboratory: Laboratory hazards and precautions: Disinfection and sterilization: Safe waste disposal: Common medical laboratory equipment: Use, care, maintenance and working principle of laboratory equipment: Quality Assurance: Principles of Quality Assurance: Components of Quality Assurance: Quality Control: External Quality Assurance Schemes.

**DBET 1103 Professional Communication Skills****Level:** First Year Semester One

The course emphasises communication skills that are essential to a successful career in Engineering. It introduces students to written and oral communications in Engineering. The course introduces documents produced in response to the context of the Engineering curriculum. The course also focuses on the refinement of reading and writing skills. More emphasis is put on clear, correct writing based on the process of composing, revising, and editing. Review of sentence structure, grammar, diction, and punctuation. The students are expected to recognize and use a variety of structural and stylistic techniques, analyze audience, purpose, and tone, and develop critical reading and thinking skills. Students will work on realistic contextualized tasks with the aim of developing communication strategies necessary to meet the academic and professional requirements in Engineering.

**DBET 1106 Electronics Principles and Practice 1****Level:** First Year Semester Two

The course covers theoretical and practical basic knowledge of electrical passive components, electrical quantities, their units and relationships. Major topics covered include: DC, simple transient, and AC circuit analysis of RLC circuits, magnetism and magnetic circuits. Other topics covered include; diodes, transistors, and op amps; linear circuits; Op Amps-Ideal Behavior; common resistor circuits; common RC circuits; applications: amplifiers, and filters; rectifiers; limiters; regulators and transistors. Each topic is reinforced by practical applications, laboratory exercises, and hands-on instruction on electrical devices and techniques.

**DBET 1107 Engineering Drawing Skills****Level:** First Year Semester One

The course is designed to provide the key principles, skills and techniques used in engineering drawing. It exposes students to contemporary skills and techniques in engineering drawing in consideration of internationally accepted standards and guidelines. Major theoretical concepts and practical applications are blended to provide students with a thorough understanding of engineering drawing skills and techniques.

**DBET 1201 Biomedical Anatomy and Physiology 1****Level:** First Year Semester Two

The course presents Anatomy and physiology as critical concepts in understanding of biomedical engineering. This course helps students to master the basic knowledge of the normal structures and physiology of the major body systems. The students also gain an insight into the physical and biochemical events that allow the various systems to function. A discussion of cells and tissues as basic structural/functional units are provided and then introduction to regulation and integration of body systems and the role of control systems in homeostasis. Nervous, endocrine, and other major systems are also covered. In many cases (where appropriate), different examples of the uses of biomedical instruments in diagnosis and treatment of human disease are given.

**DCHM 1201 General Chemistry****Level:** First Year; Semester Two

The course is a lecture-laboratory course. It provides a survey of the periodic table followed by a study of the mole, chemical equations and stoichiometric calculations. Oxidation and reduction with reference to balancing redox equations. Subsequently, Solution stoichiometry is introduced with Acid-base chemistry and emphasis on the difference between strong and weak electrolytes and different types of buffer solutions. Electrochemistry is also studied with emphasis on different types of voltaic cells. Finally,



major groups of organic compounds such as: alkanes, alkenes, alkynes and aromatic compounds are discussed with their basic physical and chemical properties. The laboratory skills such as; techniques in extraction, isolation, purification, identification and synthesis of simple organic compounds are required to acquaint the students with basic techniques used in chemistry, and also techniques used in a clinical laboratory are discussed.

### **DRSH 1201: Statistics & Research Methods**

**Level:** First Year; Semester Two

The course covers Introduction to research methods; data collection, developing problem statements, research methodology concepts; hypothesis testing; data analysis; technology development concepts in biomedical engineering. It also covers descriptive statistics. Statistical experiments; Estimation, central limit theorem, standard errors, confidence intervals, hypothesis testing, the t-distribution and F-distributions. Linear regression and correlation. Empirical curve fitting. Introduction to quality control. Other topics include; Sampling issues discussed include randomness, bias, sample size and Type I and II errors; level of significance, confidence intervals, and tests of significance for means, difference of means, variance and ratio of variances of large samples. Computer packages will be discussed.

### **DBET 1202 Electronics Principles& Practice II**

**Level:** First Year Semester Two

The course provides a critical analysis of the properties of AC and RLC circuits and introduces basic active devices and integrated circuits. It gives an advanced understanding of electronics and principles involved in practice. Topics emphasised include; RC, RL, RLC circuits, RLC resonant circuits, 3 phase systems, transformers, motors/generators, semiconductor fundamentals, diodes, bipolar transistor and FET fundamentals, discrete amplifier circuits (single and multistage), amplifier stability, power amplifiers, oscillators, power supplies, and differential amplifiers.

### **DBET 1203 Biomedical Anatomy and Physiology II**

**Level:** First Year Semester Two

The course builds on Human Anatomy and Physiology I to cover skeletal, skeletal muscle, circulatory, respiratory, digestive, and urinary. It puts emphasis on relevant biomedical instruments used in diagnosis and treatment of diseases that affect these systems to emphasise a relationship between the functioning of the human body systems and the biomedical instruments involved.

### **DBET 1204 Bio-Instrumentation & Analysis**

**Level:** First Year Semester Two

The course is designed to cover theory of operation, circuit analysis, troubleshooting techniques, and medical applications for a variety of instruments and devices. The concepts examined in this course include; electrodes, transducers, instrumentation amplifiers, electrocardiographs, monitors, recorders, defibrillators, ESU units, and related equipment used in clinical laboratories, intensive care units, and research facilities. Other areas covered also include; an introduction to principles and concepts in instrumental analysis; classification of analytical methods, types of instrumental methods; calibration methods; spectrochemical techniques; spectrochemical and instrumentation,

**DBET 1204 Applied Mathematics for Engineering****Level:** First Year Semester Two

The course is designed to provide strong foundation in advanced concepts, skills and techniques in differential equations, integral calculus and matrices. It exposes students to practical application of such concepts to engineering problems. It also Covers systems of linear equations and determinants with application to electrical, networks, logarithmic and exponential functions including the study of electrical transients, dB gain, logarithmic and semi log graphing, trigonometric functions and the graphs of the sinusoidal functions - right triangle geometry with application to impedance and admittance diagrams, complex numbers, rectangular/polar conversion and AC circuit applications, number base conversion and binary number operations with a brief introduction to Boolean logic and Karnaugh mapping.

**DBET 1205 Computer Architecture and Configuration****Level:** First Year Semester Two

This course introduces students to typical PC architecture and organization. It gives an overview of the hardware organization and how operating system and application software interact with the hardware. The course covers PC system configuration, hardware and software installation as well as basic PC preventative maintenance and troubleshooting.

**DINT 1301 Internship I****Level:** Second Year Summer Period

The course is designed to provide an opportunity to get introduced to the initial work experience in an environment of biomedical engineering Technology works and projects. In this course, Students will be placed in a hospital, medical research institution, multipurpose lab facility or other relevant work environment for a minimum period of 6 weeks between the months of May-to end of July. During this period, students are expected to make a significant contribution to a relevant project under the supervision of external staff and Bugema University personnel. Students are obliged to actively participate in the internship Programme and to attend to key activities in biomedical engineering and technology. At the end of the exercise, Students will be required to prepare a final report on their placement, and make a presentation on their work, highlighting knowledge, practical skills and techniques gained in biomedical engineering and technology. Throughout the internship periods, the students are expected to gain familiarity with a range of operations in biomedical engineering and technology sectors.

**DBET: 2101 Introduction to Biomedical Signal Processing****Level:** Second Year; Semester One

Biomedical engineering involves the application of engineering methods to improve human health. The signals encountered by biomedical engineers are typically derived from biological processes. This course covers specific relationships between theoretical measures of biomedical signals and an understanding of the information these measures provide to the sources of signals and the behaviors of their sources in response to natural or imposed perturbations. By presenting signal processing as the process of developing and manipulating a model of the signal, this course addresses four aspects as follows; (1) choosing a class of signal model, (2) selecting a specific form of the model, (3) evaluating indicators of adequacy of the model, and (4) subsequent processing of signals are emphasized.

### **DBET: 2102: Digital Electronics**

**Level:** Second Year Semester One

This course is designed to introduce the principles and techniques of modern digital systems. Major topics covered include: number systems, logic elements and equations, combinational logic circuits (encoders, decoders), sequential logic devices (flip-flop circuits); asynchronous and synchronous counters, digital arithmetic circuits, memory and programmable logic devices, basic computer system organizations, address decoding techniques, integrated-circuit logic families and interfacing techniques. All topics are reinforced by practical applications examined in the laboratory.

### **DBET 2103 Biomedical Devices Technology 1**

**Level:** Second Year Semester One

The course introduces the fundamental concepts of the health care delivery system. It examines concepts such as; hospital organization and structure, BMET duties and responsibilities, and the professional and social interrelationships between services. The course also covers the human-instrument system and problems encountered in attempting to obtain measurements from a living body. This is achieved by examining concepts such as; electrodes, transducers, instrumentation, amplifiers, electrocardiographs, monitors, recorders, defibrillators, ESU units, and related equipment. Finally, the course presents characteristics of biological signals and introduces methods for collecting, processing, displaying and recording of such signals. It discusses the principles of operation, block diagrams, schematic diagrams, performance testing procedures and common problems of selected physiological monitoring equipment. The course emphasises integration of lab exercises with the course content.

### **DBET 2104 Digital Systems and Microprocessors**

**Level:** Second Year; Semester One

This course is designed to discuss different concepts in digital systems. It discusses different topics in digital systems and microprocessors. A variety of practical exercises are provided to re-inforce the theoretical concepts in classroom. Some of the topics covered include; Combinational Logic Design: Introduction to Chip Design: Synchronous sequential systems Counters and shift registers; Logic Devices Programmable Logic Arrays PLD architectures and technologies; Introduction to System Verilog and practical PLD development Logic Simulation: Modeling of hardware behavior in software, Hardware components of a microprocessor system with AVR as a case study; Central processing unit: ALU, memory, input/output, Register-based architectures Instruction sets Assemblers Peripheral circuits and their modeling in System Verilog

### **DBET 2105 Mechanical Workshop Skills for Biomedical Engineering**

**Level:** Second Year; Semester One

This is a hands-on workshop course for biomedical engineering technology students. The course provides key workshop skills and techniques in engineering. It exposes students to practical techniques in biomedical engineering technology. It introduces students to correct use of general hand tools and basic mechanical skills used in the profession. The safe working conditions appropriate for shop activities are also emphasised in this course. The skills and techniques are meant to increase students' competence in handling workshop equipments especially in solving biomedical engineering problems. Major theoretical concepts and practical applications are blended to provide students with a thorough understanding of workshop skills and techniques.

### **DBET 2106 Biochemistry and Instrumentation Analysis**

**Level:** Second Year; Semester One

The course is designed to combine the most important aspects of biological chemistry with the study of the instrumental methods used to analyse substances of biological importance. It also puts emphasis on the study of biochemical structure and formation of carbohydrates, amino acids, protein, nucleic acids, enzymes and metabolism of macromolecules. The laboratory techniques include thin layer chromatography, spectroscopy, chromatography and electrochemistry, some protein purification, separation of proteins and nucleic acids (DNA) by electrophoresis.

### **DPLT 2201 Refrigeration & Air Conditioning**

**Level:** Second Year Semester Two

The course is designed to fundamental concepts of refrigeration and air conditioning as well as a thorough understanding of the more complex aspects of these systems from each component function to troubleshooting techniques and procedures. The course is further designed to provide a comprehensive foundation of knowledge of refrigeration and air conditioning. Areas covered include; introduction to basic theories and principles of refrigeration and air conditioning, examines major system components, gas laws, pressure/temperature relationships, tools of the trade, electricity for the service technician, introduction to heat pumps, psychrometrics, heat transfer, air distribution and hydronics

### **DBET 2201 Electronics Principles and Practice III**

**Level:** Second Year; Semester Two

This course covers the study of analog electronic devices and circuits. It provides further knowledge of linear and non-linear electronic circuits. Major topics covered include: operational amplifier circuits, oscillators and timers, voltage regulation, thyristor devices and phase control circuits, data acquisition systems, analog to digital and digital to analog converters, interfacing devices and techniques, and phase locked-loop circuits. Each topic is reinforced by practical applications examined in the laboratory

### **DBET 2202 Medical Device Standards**

**Level:** Second Year; Semester Two

The course addresses three major themes which include; Biomedical Engineering Practice, Medical Device Standards and Regulations, and Troubleshooting Techniques. In the theme of Biomedical Engineering Practice, the course discusses the hospital and medical device industry as well as the functions of the biomedical engineering technologists in R & D and technical support settings. In the Medical Device Standards and Regulations, the course introduces Z32-99 (Electrical Safety in Patient Care Areas) and IEC 60601 (Medical Electrical Equipment) standards, Canadian HPFB and US FDA medical device regulations with emphasis on electrical safety and design assurance. Finally, an application of different approaches to problem-solving and troubleshooting techniques is emphasised. Laboratory sessions, projects and assignments are used to reinforce the theory and to enable students gain experience in electrical safety measurements and troubleshooting techniques.

### **DBET 2203 Biomedical Computer Networks and Data Communications**

**Level:** Second Year; Semester Two

The course introduces students to the principles of data communications and network fundamentals with applications in biology and medicine. The course uses Open System Interconnect (OSI) model to discuss network architectures, protocols, hardware and software. Emphasis is also put on Layers one, two and three together with the Ethernet

network standard (IEEE802.3) and the Transmission Control Protocol/Internet Protocol (TCP/IP). The Analog and digital data communications, transmission methods, coding schemes and commonly used communication standards in the medical device industry are also covered. During the laboratory sessions networks will be designed, built and managed to enhance understanding of the key theoretical concepts and to gain hands-on experience with computer networks

### **DBET 2204 Biomedical Devices Technology II**

**Level:** Second Year; Semester Two

The course covers basic problem solving skills, and tracks down to identify problems frequently encountered with medical instrumentation. In this course, special consideration is given to developing logical troubleshooting techniques using technical manuals, flowcharts, and schematics, and to diagnose equipment faults. The course is designed to present the principles of operation, design, construction, potential hazards and common problems of diagnostic and therapeutic medical equipment (e.g. electrosurgical units, cardiac defibrillators, CT-scan, MRI, X-Ray, Ultra-sound, Blood Gas analysers, Anesthetic Machine, etc.) used in the clinical environment. The course also covers selected equipment in more detail (discussion may go over schematic diagrams, wiring diagrams, performance assurance tests, calibration procedures and problem solving). The integration of lab exercises with course content is also emphasised.

### **DBET 2205 Contracts and Financial Management**

**Level:** Second Year Semester Two

This course is designed to introduce managerial and legal aspects of contract administration. It focuses on aspects of the laws that affect biomedical engineering companies as well as the project owners. Emphasis is put on contract forms and provisions related to liability for engineering design and companies, dispute resolution; importance of contract language negotiations; impact of project risk transfer; contract law in biomedical engineering and the rules of interpretation. Special consideration is given to financial management and managerial accounting, basic elements of accounting (Generally Accepted Accounting Practices); financial records and financial statements for biomedical engineering companies. Other areas covered include: principles of accounting for construction projects, techniques of cost accounting and financial analysis for construction practitioners; accounting principles to track and manage labor, material, equipment, overhead and other construction resources; contract revenue, financial reporting, and tax considerations for procurement and contracts, pre-bid planning, contract budgets and cash flow, profit objectives, analyzing the competition, cost and volume, risk assessment, budgeting, time management, and planning.

### **DFBS 2208 Entrepreneurship and Innovation Skills**

**Level:** Second Year Semester Two

The course provides an insight into what entrepreneurship, Innovation and sustainability are, and their role in business in the Food sector in Uganda, East Africa and beyond. Topics to be emphasized include: Innovation and Entrepreneurship - a perspective from a global corporation; Idea generation, mind-mapping, roadmaps for the venture process, exploring the industry perspective; The business planning process; Communications and team building; Intellectual property; Opportunity recognition; Market analysis; Understanding finance and seeking resources; Incubation, finance, state supports, operational considerations; Sales and marketing; The role of food regulation in food and business. The sustainability concept, its role in business sector, dimensions of sustainability, strategies to ensuring sustainability in Food enterprises.

### **DBET 2302 Biomedical Engineering Technology Project**

**Level:** Second Year; Semester Two

The course is designed to provide more competence to students in applying theoretical and practical skills and techniques in biomedical engineering to solve real problems in the biomedical engineering industry. It exposes students to original and real projects in biomedical engineering technology fields. The real projects are meant to increase students' competence in handling different tasks and making critical decisions in appropriate use of biomedical engineering technologies to solve different problems at hand. During the course, students will undertake and complete a biomedical engineering project. From the given functional specifications, students will develop detailed specifications, a project plan and schedule of the project. The project will be carried out with design methodologies that are consistent with ISO 13485 and QSR (21CFR820.30). Following detailed planning, students will participate in the design and development of the project, and will complete the project independently. These tasks will include circuit design, parts acquisition, printed circuit board layout, circuit building, package design and fabrication, wiring, troubleshooting and final testing. Students will maintain a detailed design history file, a logbook of their work throughout the course, and will prepare a technical report at the completion of their project. The process of design, prototyping, verification, validation and documentation will be introduced at different stages of the course.

### **DBET 2206 Medical Imaging Systems**

**Level:** Second Year; Semester Two

The course covers basic operation and hardware involved in imaging systems used in biomedicine. It covers the fundamental principles, functional building blocks and quality assurance of radiography, nuclear medicine and ultrasound imaging equipments. An introduction of concepts in radiation protection, other imaging modalities such as MRI and PET as well as the fundamentals of digital radiology and PACS is provided. Laboratory sessions are given to re-inforce lectures.

### **DBET 2207 Electronic Image Displays**

**Level:** Second Year; Semester Two

This course introduces practical applications of video for acquisition and display of data. Fundamentals of analog and digital video raster scan displays are developed. The types of equipment used in image creation, transmission, and storage are discussed. Principles of illumination are introduced and the characteristics and construction of light sources and modifiers are discussed. Principles of photography and photographic equipment are explored. Methods of image capture are investigated. Image processing and manipulation topics are developed using appropriate application software. Applications specific to Biomedical Engineering, such as endoscopy, microscopy, and digital radiology will be presented. Topics in the application of digital image creation, acquisition, processing and display will be presented as lab activities.

### **DBET 2107 Electronic & Electrical Engineering**

**Level:** Second Year; Semester One

This course provides an introduction to electrical and electronic engineering covering: basic electric circuit quantities and circuit analysis techniques; semiconductor devices such as diodes, transistors and operational amplifiers and their application in power supplies and amplifiers; digital logic and microcontrollers; and finally electrical energy, machines and power systems. It is designed to give a broad understanding of the principles of electrical and electronic engineering. The following areas are also covered in this course: Basic Circuits/DC Analysis: electrical quantities, components

and sources, circuit analysis laws; Kirchhoff laws, series/parallel circuits, voltage/current divider, superposition, Thevenin theorem, controlled sources. Electronics: Diodes, DC power supplies, transistors and op-amps. Digital Electronics: Perform basic binary arithmetic calculations; analyse and synthesize combinatorial logic circuits; and analyse the operation of short assembly-language programs. Electrical Machines: introduction to magnetic circuits, transformers and DC and AC machines. Introduction to Digital Workshop: safety and basic skills, Design project; electronic die, power supply, oscillator, logic gates, flip-flops and counters, an electrical machines lab session

### **DBET 2109 Patient Care & General Nursing Skills**

**Level:** Second Year; Semester One

The course introduces students to the hospital environment and the basic safety concepts of patient care. It includes observation and communication skills, body mechanics, fire safety, and medical and surgical asepsis. The goal of this course is to provide the student with knowledge and skills required to work safely and effectively in patient care situations.

### **DSLT 1101 Introduction to Laboratory Science & Technology**

**Level:** First Year; Semester One

The course is designed to introduce students to general skills and techniques in laboratory technology of different laboratory settings. It discusses major themes such as Types of laboratory ware, their uses, Cleaning of laboratory ware: Specimen containers: Types of specimen containers: Preparation of the different containers: Laboratory Safety: organization and layout of the laboratory: Laboratory hazards and precautions: Disinfection and sterilization: Safe waste disposal: Common medical laboratory equipment: Use, care, maintenance and working principle of laboratory equipment: Quality Assurance: Principles of Quality Assurance: Components of Quality Assurance: Quality Control: External Quality Assurance Schemes.

### **DSLT 1102 Algebra and Calculus**

**Level:** First Year; Semester Two

The course covers vectors, linear independence, and scalar product. Matrices, simultaneous equations, determinants, vector product, eigenvalues, eigenvectors, applications. Equation of straight line & plane. Extreme value theorem, maxima & minima. Sequences, series, Taylor series, L'Hopital's rules. Techniques of integration, numerical methods, volumes of revolution.

### **DSLT 1103 Basic Inorganic Chemistry**

**Level:** First Year; Semester One

This course is designed to build a foundation to the study of inorganic chemistry with emphasis to laboratory applications in inorganic chemistry. Topic such as atomic structure, the periodic table and chemistry of representative elements will be covered. The course also emphasizes simple preparation of inorganic chemicals, complexometric titrations, ion exchange resins, potentiometric titrations with ironclads, oxidation-reduction, argentometric and iodometric titrations.

### **DSLT 1104 Fundamentals in Biology**

**Level:** First Year; Semester One

The course provides a general introduction of key biological principles with emphasis in laboratory technology. Topics include organization of living matter, metabolism, reproduction, genetics, and ecology. The course also introduces students to concepts in energy relationships, cell biology, physiology, genetics, development, and evolution; taxonomy and morphology of organisms, and general laboratory skills and techniques in biology.



### **DSLT 1105 Basic Physics**

Level: First Year; Semester One

The course is designed to provide a thorough introduction to the principles and methods of physics for students who have good preparation in physics and mathematics. Emphasis is placed on problem solving and quantitative reasoning. This course covers Newtonian mechanics, special relativity, gravitation, thermodynamics, and waves and general laboratory skills and techniques in physics

### **DSLT 1201 Laboratory and Workplace Management Skills**

Level: First Year; Semester Two

The course is designed to provide an introduction to key aspects of science laboratory technology with emphasis on effective management and standard practices. It also provides a strong foundation in key aspects of laboratory management such as planning, communication and organization using standard and modern approaches.

### **DSLT 1202 Industrial Laboratory Skills and Safety**

Level: First Year; Semester Two

The course is designed to describe skills and techniques in industrial laboratory technology. It also covers theory and operation of manufacturing processes; basic processes, equipment, and material used in manufacturing-plastics, industrial and local preparations of common chemicals, solutions and laboratory reagents; metal removal, materials joining, casting, and some of the newer processes; terminology, symbol identification feature control frames, modifiers, datums, etc. Selection of datum features, calculation of bonus tolerances, assignment of form, run-out and positional tolerances, and tolerance stack-up; Principles of chemical engineering, chemical manufacturing and preparation, industrial accident prevention; accident statistics and costs; appraising safety performance; recognizing industrial hazards and safeguard measures; Occupational Safety and Health Act and policies. Applied Calculus for Technology; Introduction to Supervision; Industrial Metrology; Production and Inventory Control; Motion and Time Study; Technology Design; Health and Injury Control in a Work Setting; Manufacturing Policy; introduction to Computer-Aided Manufacturing.

### **DSLT 1203 Basic Electronics**

Level: First Year; Semester Two

The course is designed to provide an overview of electronic components and their common uses. The course covers diodes, transistors, and op amps. Laboratory demonstrations will be given to reinforce the concepts learned from the lectures and homework. Topics to be covered include; Review of linear circuits and frequency response fundamentals; Op Amps-Ideal Behavior; common resistor circuits; common RC circuits; applications: amplifiers, and filters; Diodes- pn junctions; Ideal diodes; diodes with a turn-on voltage; circuits with ideal diodes; rectifiers; limiters; regulators; Transistors-Overview of the physics of MOSFETs; MOSFETS in amplifiers and in digital logic circuits and laboratory skills and techniques

### **DSLT 1204 Quantitative Instrumental Analysis**

Level: First Year; Semester Two

The course is designed to provide an introduction to principles and concepts in instrumental analysis; and their application to a laboratory setting. Topics to be covered include; classification of analytical methods, types of instrumental methods; calibration methods; spectrochemical techniques; spectrochemical and instrumentation, potentiometric titrations; conductometric titrations.



### **GECS 1202 Statistics**

Level: First Year; Semester Two

This is an introductory course for mathematics. It covers statistical experiments, events, sample space, probability functions, conditional probability, independent and mutually exclusive events, combinatorial theory in determining probabilities of events, discrete and continuous variables, the distribution function, mean and variance. Several common distributions are covered, such as geometric, hyper-geometric, binomial, Poisson, rectangular, exponential, normal, Students-t, Chi-square and F - distributions. Sampling issues discussed include randomness, bias, sample size and Type I and II errors. Other topics include level of significance, confidence intervals, and tests of significance for means, difference of means, variance and ratio of variances of large samples.

### **DINT 2301 Internship (Industrial Training) II**

Level: Second Year; Summer Period

The course is designed to provide an opportunity for students to gain relevant work experience in a science Laboratory Environment. In this course, Students will be placed in an educational, industrial, research or other relevant science laboratory environment for 3 months. During this period, the students will be expected to make a significant contribution to a relevant science laboratory or project under the supervision of the educational, industrial or research laboratory official in charge and Bugema University personnel. Students are obliged to actively participate in the Industrial Training Programme so as to gain more hands-on experience. Finally, a student is required to prepare a final report on their placement, and make a presentation on their work.

## **BIOLOGICAL AND INDUSTRIAL LABORATORY TECHNOLOGY COURSES**

### **DBLT 2101 Techniques in Microbiology I (Bacteriology)**

Level: Second Year; Semester One

The course is designed to introduce students to microbiology with emphasis on bacteriology and also to provide students with a general working knowledge in the areas of: cell structure, taxonomy, cultivation (nutrition, media preparation, isolation, transfer techniques) enumeration, metabolism, control of bacteria, and industrial microbiology.

### **DBLT 2102 Principles of Biotechnology**

Level: Second Year; Semester One

The course is designed to discuss the basic principles of recombinant DNA technology and its relevance to areas of biotechnology including industrial processes, transgenic animals, genetically modified crops, gene and drug therapy and stem cell applications. The bioethical issues and implications on legal, social and ethical morals are also covered.

### **DBLT 2103 Techniques in Enzymology and Cytology**

Level: Second Year; Semester One

This course covers properties of enzymes, effects of different factors (such as temperature, pH, concentration, inhibitors, etc.) on enzyme activity, and enzyme extraction and purification methods. It also explores laboratory equipment and techniques used to study such biological processes. Other topics include microscopic examination of animal and plant cells, cell division and techniques in cell culturing.

### **DBLT 2104 General Laboratory Techniques & Innovations in Biology**

Level: Second Year; Semester One

The course is designed to explore general laboratory techniques of making Biology solutions, improvisation techniques, techniques in collecting Biology specimens, maintenance and care of equipment, designing biology experiments and projects, safety in the laboratory, laboratory ethics, techniques in specimen preservation; performing histological tests; chemical preparation tests and procedures; histological procedures; laboratory-based ecological techniques; microbiological tests and procedures; microscopic examination, and Preparation, standardization and use of laboratory solutions.

### **DBLT 2105 Instrumental Methods of Analysis**

Level: Second Year; Semester One

The course is designed to provide students with knowledge, and techniques in spectrophometric and separation analysis in biological, chemical, environmental, forensic, and medical and quality control areas. Practical experience is gained in the operation of infrared, ultraviolet/visible and atomic absorption spectrophotometers, gas and liquid chromatographs to provide a strong foundation for advanced studies in instrumental methods of analysis.

### **DBLT 2106 Biochemistry and Laboratory Applications**

Level: Second Year; Semester One

The course is designed to introduce biochemistry concepts with emphasis on the study of biochemical structure and formation of carbohydrates, amino acids, protein, nucleic acids, enzymes and metabolism of macromolecules. The laboratory techniques include thin layer chromatography, some protein purification, separation of proteins and nucleic acids (DNA) by electrophoresis.

### **DURE 2116 Research Methods and Biostatistics**

Level: Second Year; Semester One

The course covers Introduction to research methods; data collection, developing problem statements, research methodology concepts; hypothesis testing; data analysis; technology development concepts in biomedical engineering. It also covers descriptive statistics. Statistical experiments; Estimation, central limit theorem, standard errors, confidence intervals, hypothesis testing, the t-distribution and F-distributions. Linear regression and correlation. Empirical curve fitting. Introduction to quality control. Other topics include; Sampling issues discussed include randomness, bias, sample size and Type I and II errors; level of significance, confidence intervals, and tests of significance for means, difference of means, variance and ratio of variances of large samples. Computer packages will be discussed.

### **DBLT 2201 Techniques in Microbiology II (Mycology)**

Level: Second Year; Semester Two

The course is designed to introduce student to an understanding of structural characteristics and taxonomic relationship of major classes of fungi. Emphasis is put on the harmful and beneficial effects of some widely distributed species of fungi; their primary and secondary metabolites of sexual and Para-sexual recombination, laboratory techniques for detection of mycotoxins in food; fungi and single cell protein (SCP); and mycoses.

### **DBLT 2202 Techniques in Plant Agriculture and Biotechnology**

Level: Second Year; Semester Two

The course is designed to develop and apply lab skills and techniques in a project based approach using experimental research related to plant agriculture. The course will also provide an overview of standard procedures and skills and techniques in experimental (lab and Field) projects in plant agriculture. Other areas of study will emerge from the study of plants in an agricultural context.

### **DBLT 2203 Techniques Anatomy & Physiology Experiments**

Level: Second Year; Semester Two

The course is designed to provide the student with a basic understanding of anatomical and physiological features in animals and plant growth and development. This course also covers laboratory equipment, and techniques in dissection of small mammals (rat, rabbit), amphibians and insects. Other topics include physiological processes in plants such as food tests, osmosis and diffusion in living and nonliving tissues, factors affecting photosynthesis, fermentation, gaseous exchange, and anatomy and histology of plant organs with laboratory experiments for their study.

### **DBLT 2204 Techniques in Molecular Biology**

Level: Second Year; Semester Two

The course is designed to introduce science laboratory technology students to a range of specific practical sessions using modern laboratory techniques. This is important to help students develop skills in laboratory and scientific data handling. The practical sessions designed in this course should cover the following techniques; PCR, Molecular cloning, clone analysis, protein analysis, bioinformatics, signalling pathways and the sub-cellular relocations of protein

### **DREP 2206 Research Project**

Level: Second Year; Semester Two

The course is designed to enhance laboratory skills and the ability of students to identify, analyse and solve problems in scientific research, and their skills in communicating research results. The course emphasises a Laboratory based research project on a topic in the field of Lab Technology, and Innovation, performed under the supervision of an appointed faculty. The students will be expected to prepare a detailed report on their experimental work in accordance with the approved guidelines provided by the concerned department of Bugema University.

## **CHEMISTRY AND INDUSTRIAL LABORATORY TECHNOLOGY COURSES**

### **DCLT 2101 General Physical Chemistry I**

Level: Second Year; Semester One

The course is designed to cover the basic concepts of matter, quantitative interpretation of chemical reactions, behavior of gases, composition of atoms and their electron configurations and chemical bonding. It also provides a student with an opportunity to apply principles of physical chemistry to experimental work to show how physical chemistry data are obtained. The students will be exposed to the use of common instruments for physical chemical measurements. The ability to handle enthalpy and two - phase equilibrium calculations, reaction rates, diffusion and partial molar quantities will be emphasized.

### **DCLT 2102 Analytical Chemistry**

Level: Second Year; Semester One

The course is designed to cover the chemical theory and experimentation with emphasis on laboratory skills and analysis techniques. It further demonstrates the importance of stoichiometric calculations for solution preparation, standardization, acid-base reactions, and oxidation-reduction reactions to the analysis of materials applicable to the science and environmental laboratory field.

### **DCLT 2103 Organic Chemistry I**

Level: Second Year; Semester One

The course is a lecture-laboratory course. The lecture phase will provide students with basic knowledge of the properties and reactions of alkanes, alkenes, alkynes and aromatic compounds. The Laboratory experiments will emphasize proper techniques in extraction, isolation, purification, identification and synthesis of simple organic compounds.

### **DCLT 2104 Instrumental Methods of Analysis I**

Level: Second Year; Semester One

The course is designed to provide students with knowledge, and techniques in spectrophotometric and separation analysis in biological, chemical, environmental, forensic, and medical and quality control areas. Practical experience is gained in the operation of infrared, ultraviolet/visible and atomic absorption spectrophotometers, gas and liquid chromatographs to provide a strong foundation for advanced studies in instrumental methods of analysis.

### **DCLT 2105 Inorganic Chemistry**

Level: Second Year; Semester One

This is a lecture-laboratory course that covers introduction to basic concepts in inorganic chemistry. It includes bonding theories and periodicity; acids and bases, including Lewis acid-base theory, hard and soft acids and bases, and super-acids; electrochemistry, including half-cell potentials, oxidation states, and Latimer diagrams; nuclear chemistry, including nuclear decay and stability; descriptive chemistry of groups 1-8; coordination chemistry transition metal complexes, including naming and theories of their formation, and physical properties and; descriptive chemistry of the transition metal, lanthanide and actinide elements with more emphasis on laboratory practical aspects.

### **DCLT 2106 Biochemistry and Laboratory Applications**

Level: Second Year; Semester One

The course is designed to introduce biochemistry concepts with emphasis on the study of biochemical structure and formation of carbohydrates, amino acids, protein, nucleic acids, enzymes and metabolism of macromolecules. The laboratory techniques include thin layer chromatography, some protein purification, separation of proteins and nucleic acids (DNA) by electrophoresis.

### **DCLT 2201 General Physical Chemistry II**

Level: Second Year; Semester Two

The course is an introductory course to chemical equilibrium, properties of solutions and acid-base systems, equilibrium in saturated solutions, and oxidation-reduction reactions and associated electrical energy. The laboratory experiments that are demonstrated and discussed to provide a strong laboratory experience to the students.

### **DCLT 2202 Heat and Thermodynamics**

Level: Second Year; Semester Two

This is an introductory course in heat and thermodynamics. It covers the equation of state for an ideal gas, basic heat transfer, kinetic theory, the laws of thermodynamics; and Maxwell's distribution of velocities and all associated practical demonstrations.

### **DCLT 2203 Organic Chemistry II**

Level: Second Year; Semester Two

This course is based on Lecture-Laboratory approach. It provides students with information on more Functional group studies which include nomenclature, reaction and properties of alcohols, phenols, ethers, halides, aldehydes and ketones, carboxylic acids and derivatives, and nitrogen bases. Stereochemistry topics will be introduced. The course also covers aspects of synthesis and purification of organic compounds. It deals with reactions involving different organic systems, the extraction of natural products, isolation and analysis of organic compounds.

### **DCLT 2204 Instrumental Methods of Analysis II**

Level: Second Year; Semester Two

The course is based on lectures and laboratory approaches. It covers advanced topics that describe techniques in spectrophotometric and chromatographic separation applications. A general overview of sample preparation and extraction technologies, and an introduction to mass spectrometry is given. Portable spectroscopic and chromatographic instrumentation for process analytical technology and environmental field sampling applications are also discussed. Practical experience is gained in the operation of infrared (IR) and atomic absorption spectrometers (AA), gas (GC) and liquid chromatographs (HPLC), and gas chromatography/mass spectrometers (GC/MS) and fluorometer.

### **DCLT 2205 Techniques in Quantitative Food Analysis**

Level: Second Year; Semester Two

The course is designed to provide students with knowledge in sampling, sample preparation, analysis, calculations, treatment of experimental data, errors, reporting of results, chemistry of chemical procedures for determination of proteins, moisture, minerals, vitamins, and the extraction and analysis of fats and oils, and microbiological techniques in quality control and testing of food samples.

## **PHYSICS AND INDUSTRIAL LABORATORY TECHNOLOGY COURSES**

### **DPLT 2101 Electricity and Magnetism**

Level: Second Year; Semester One

The course covers Electricity and Magnetism concepts. It applies both differential and integral calculus in the study of electricity and magnetism. The course provides a practical exposure of students to the laboratory skills and techniques In the study of electricity and magnetism. The core areas covered include; Electrostatics, Conductors, capacitors, and dielectrics, Electric, circuits, Magnetic, fields, Electromagnetism.

### **DPLT 2102 Optics and Waves**

Level: Second Year; Semester One

This course provides general concepts in wave propagation and optics. It covers wave concepts, Fraunhofer diffraction, Huygen's – Fresnel diffraction, vector nature of light and polarization, optical, lasers and introduction to holography with a special emphasis on the skills and techniques in laboratory investigations.

### **DPLT 2103 Electronics & Innovation Technology**

Level: Second Year; Semester One

The course is designed to provide an overview of electronic components and their common uses. The course covers diodes, transistors, and op amps. Laboratory demonstrations will be given to reinforce the concepts learned from the lectures and homework. Topics to be covered include; Review of linear circuits and frequency response fundamentals; Op Amps-Ideal Behavior; common resistor circuits; common RC circuits; applications: amplifiers, and filters; Diodes- pn junctions; Ideal diodes; diodes with a turn-on voltage; circuits with ideal diodes; rectifiers; limiters; regulators; Transistors-Overview of the physics of MOSFETs; MOSFETS in amplifiers and in digital logic circuits. More practical applications will be provided.

### **DPLT 2104 Radiation Physics**

Level: Second Year; Semester One

The course is designed to examine the basic theory and practice of Radiation and Health Physics. Atomic and nuclear radiation. X-ray and gamma radiation. Interaction of radiation with matter, and the effects on living tissue. Principles of radiation detection, radiation measurement, external and internal dosimetry. Radiation Protection.

### **DPLT 2105 Thermodynamics**

Level: Second Year; Semester One

This course provides an introduction to engineering principles or the science of transferring energy from one place or form to another place. It also introduces tools to analyze energy systems from solar panels, to engines, to insulated coffee mugs. The specific topics covered include; mass and energy conservation principles; first law analysis of control mass and control volume systems; properties and behavior of pure substances; and applications to thermodynamic systems operating at steady state conditions.

### **DBET 2201 Biomedical Engineering & Medical Lab Equipment**

Level: Second Year; Semester Two

This course is designed to introduce the students to the principles and concepts of biomedical engineering. Students gain an understanding of the range and depth of the discipline and their rate in the contemporary healthcare environment. Topics to be covered include; engineering principles, tools for medical engineering, techniques in maintenance, operation of medical equipment; Service description and application, technology and engineering for medical equipment; repair and installation of medical equipment, calibration and instrumentation of medical equipment.

### **DPLT 2201 Refrigeration and Air Conditioning**

Level: Second Year; Semester Two

The course is designed to fundamental concepts of refrigeration and air conditioning as well as a thorough understanding of the more complex aspects of these systems from each component function to troubleshooting techniques and procedures. The course is further designed to provide a comprehensive foundation of knowledge of refrigeration and air conditioning. Areas covered include; introduction to basic theories and principles of refrigeration and air conditioning, examines major system components, gas laws, pressure/temperature relationships, tools of the trade, electricity for the service technician, introduction to heat pumps, psychrometrics, heat transfer, air distribution and hydronics

### **DPLT 2202 Mechanics**

Level: Second Year; Semester Two

This course provides a basic introduction to mass, momentum, force, Newton's laws of motion, work, energy, power, conservative forces, potential energy, impulsive forces, rectilinear motion of a particle, uniformly accelerated motion, simple harmonic motion, damped and forced oscillations, elastic strings and springs, motion under gravity, constrained particle motion, resisted and oscillatory motion, motion on curves and central orbits.

### **DPLT 2203 Industrial Physics**

Level: Second Year; Semester Two

The course is designed to provide an introduction to industrial physics. Areas such as industrial maintenance mechanics that have direct application of physics to machinery are emphasized. Topics to be covered include pretest; measurement and trigonometry; motion and forces in one direction; concurrent forces, work and energy; simple machines; rotation motion; rotational motion and non-concurrent forces; matter; fluids; temperature and heat; gas laws; and posttest

### **DPLT 2204 Material Science**

Level: Second Year; Semester Two

This course focuses on the fundamentals of structure, energetics, and bonding that underpin materials science. Topics include: an introduction to thermodynamic functions and laws governing equilibrium properties, relating macroscopic behavior to atomistic and molecular models of materials; the role of electronic bonding in determining the energy, structure, and stability of materials; quantum mechanical descriptions of interacting electrons and atoms; materials phenomena, such as heat capacities, phase transformations, and multiphase equilibria to chemical reactions and magnetism; symmetry properties of molecules and solids; structure of complex, disordered, and amorphous materials; tensors and constraints on physical properties imposed by symmetry; and determination of structure through diffraction. Real-world applications include engineered alloys, electronic and magnetic materials, ionic and network solids, polymers, and biomaterials.

## School of Natural Sciences List of Lecturers

**Associate Dean; Mutekanga David**, Post-Doctoral Fellowship (UNU), PhD (Environ. Mgt) (Makerere), MSc (Zoology) (Makerere), BSc – Biological Sciences (Makerere).

### Department of Agricultural Sciences

**Ag. Head/Coordinator; Nambalirwa Allen**, MSc (Agric. in progress), BSc (Agric. & Rural Innov.) (Makerere).

### Full-time Faculty

**Kaweesa Grace**, PhD (Agric – in progress) (Kabarak), M.Agric (CLSU, Philippines), BSc(Ed) (Bugema).

### Contract/Adjuncts

**Behangana Robert**, MSc (Sust. Agric. & Rural Dev) Makerere, BSc (Coop. & Agribus. Mgt) (Ndejje).

**Kawala Mastula**, MSc (Agribus. Mgt) Makerere, BSc (Agribus. Mgt) (Makerere).

**Kamulegeya Patrick**, MSc (Agric. Food Security & Agric. Dev) (Kyungpook), PGD (Project Mon. & Eval.) (Uganda Technology & Management Univ.), BSc (Agric) (Gulu).

**Kiirya Kenneth**, MSc (Crop Genetics & Breed.) (Southwest Univ., China), BSc (Agric) (Makerere).

**Mwebe Robert**, PhD (Vet.) (Makerere), MSc-IAH (Edinburgh, UK), M.Vet.Med (Makerere), PGD (Project Plan. & Mgt) (UMI), BSc (Vet. Med.) (Makerere), Dip. in Animal Husb. & Milk Processin) (Oenkerk, Netherlands).

**Ogwang Joel**, MSc (Biotech) (American University in Cairo), BSc (Agric. Sci) (Alexandria, Egypt).

### Department of Life & Physical Sciences

**Ag. Head Bwambale Brian**, MSc (Math Sci.) (Korea), BSc (Ed) (Bugema).

### Full-time Faculty

**Mghweno R. Leonard**, MSc (Chem), BSc (Ed)(Hons, (Dar es Salaam), Dip. (Ed) (Klerruu TC).

**Mugula B. Belden**, PhD (in progress), MSc (Greenwich - UK-Saxon, NL), BSc. (Conserv. Biol.) (Makerere), Dip. Ed).

### Contract/Adjuncts

**Bossa J. Kato**, MSc (Stat), BSc (Stat), Dip Ed

**Epel Anthony**, MSc (Res. Methods) (Jomo Kenyatta), PGD (Monit. & Eval.) (Uganda Technology & Management University), BVSA (Ed) (Kyambogo).

**Kintu Christopher**, MSc (Immun. & Clinical Microbiol) Makerere, BSc (Biochem) (Makerere).



**Kabanda Francis**, BBA (Info. Syst) (Bugema), Dip. Sci. Tech. (Kyambogo).

**Mayanja Richard**, MSc (Sci. Immun. & Clinical Microbiol.) (Makerere), BSc (Lab. Tech.) (Kyambogo).

**Mufubi Agarton**, MSc (Nat. Res. & Environ. Mgt) (Bogor Agricultural University, Indonesia), BSc (Ed) (Mbarara).

**Mukatabala Haruna A.**, MSc (Math. Model.) (Makerere), BSc (Ed) (Gulu).

Muyombya S. Matovu, PhD (Stat – in progress) (Dar es Salaam), MSc (Stat) BSc (Stat) (KIU).

**Mugagga Julius**, BSc (Biomed. Engin.) (Makerere).

**Nalule Oliver**, MSc (Environ. & Nat. Res.) Makerere, BSc (Forestry) (Makerere).

**Ssematimba Patrick**, BSc (Biomed. Lab Tech.) (Makerere).

**Ssegawa F. Mugerwa**, MSc (Biochem. in progress), BSc (Chem) (Makerere).

**Taabu Steven**, PhD (in progress), MSc (Physics), BSc (Ed) (Makerere).

**Turyatemba Ismail**, MPH (Bugema), BSc (Med. Lab. Sci.) (Mbarara).

**Yiga Vincent**, MSc (Environ. & Nat. Res.) (Makerere) BSc (Ed), Dip (Ed) (Kyambogo).

# **SCHOOL OF SOCIAL SCIENCES (SOSS)**

## SCHOOL OF SOCIAL SCIENCES

**Dean:** Keith Tibenda, Ph.D. Leadership (Candidate) AUA, MSA International Development - Andrews University, 2000; BBA Management -University of Eastern Africa Baraton, 1993

### **Background**

The School of Social Sciences was created to house the department of Development and Humanitarian Studies and Social Work and Social Administration when Bugema University was granted a charter by the National Council of Higher Education of the Ministry of Education and Sports of the Republic of Uganda, in 2009. Previously, it used to include the Department of Theology and the Department of Education both of which have since attained autonomy, with various divisions. At the time of the creation, the Department of Social Work and Social Administration was incubating the department of Counseling and Guidance. It still houses this department and still continues to exist with a few registered students but with its courses being done by the many students from other departments of the school and other schools in the university.

The department of development and Humanitarian studies has since grown by specializing in some of the courses which used to form part of the curriculum that the department used to offer. The demand for development communication led to the creation of courses leading to a degree in journalism and mass communication.

The necessity to create a public administration degree arose from the demand from our in-service program students who used to work as sub-county chiefs and were required to have at least a degree in the social science-related field but also some qualification in Public Administration. This led to the creation of such a diploma for our graduates in Development Studies but also created a degree in Public Administration since this is what they actually needed.

Since the courses we offer are demand-driven, it may be necessary to create many more courses depending on the demand at the time. It is not yet clear what direction we will take but it seems clear enough that eventually, these will become stand-alone programs on their own.

Social Work and Social Administration Department has recently joined as a corporate member of the National Association of Social Workers of Uganda. As a school we are fulfilling the requirements of the association and this is good of our graduates.

### **Philosophy**

The philosophy underlying the teaching in the school of social sciences is based on Galatians 5: 22 - 23 "But the fruit of the spirit is Love, Joy, Peace, Patience, Kindness, Goodness, Faithfulness, gentleness and self-control. Against such, there is no law."

This school is divided into two main departments:

Department of Development and Humanitarian studies. Programs offered in this school include:

#### ***Bachelor's Degree in:***

- Development Studies
- Journalism and Mass Communication
- Public Administration and Management
- Community Development
- Peace and Conflict Management
- Humanitarian Emergency and Disaster Management

***Diploma in:***

- Development Studies
- Public Administration and Management

***Certificate in:***

- Public Administration and management

Social Work and Social Administration - The programs offered include:

***Degrees:***

- Bachelor of Social Work and Social Administration
- Bachelor of Science in Psychology and counseling

***Diploma in:***

- Social Work and Social Administration
- Counseling Psychology

***4. Certificate in:***

- Counseling

**Vision**

The school envisions satisfied students and workers in every activity we are involved in

**Mission**

The mission of the school of social sciences is to offer education by preparing students through training, research and serving mankind with integrity

**Objectives**

- To achieve sustainable development goals by sensitizing students about them
- To teach the public administrators who will lead without causing pain to the subjects
- To touch the hearts of the suffering and marginalized
- To produce journalist who will report responsibly
- To produce social workers who understand the diverse social complexities and have a solution for them
- Prepare students for higher scholarship in the professional courses they have done at lower academic levels

## DEPARTMENT OF DEVELOPMENT STUDIES

**Head of Department:** Joshua Busuulwa R. – MA, B.A Development Studies, Bugema

### Vision

The Department envisions being a leader in teaching, research and community engagement in development and humanitarian studies within sub-Saharan Africa

### Mission

The Department of Development and Humanitarian Studies at Bugema University aims to equip students with skills and knowledge required for holistic individual growth and sustainable development of societies around the world.

### Programmes offered

- Bachelor of Arts in Development Studies (BADs)
- Bachelor of Humanitarian Emergency and Disaster Management (BHEM)
- Bachelor of Arts in Community Development (BACD)
- Bachelor of Arts in Peace and Conflict Management (BPCM)
- Bachelor of Journalism and Mass Communication (BJMC)
- Diploma in Development Studies (DDVT)

### Objectives

- To train students in development-oriented courses with the aim of graduating development practitioners who are true to development principles and sound ethics.
- To stimulate students to engage in research geared towards the fulfillment of national development objectives.
- To promote different outreach programs with the purpose of enabling the community to meet social and economic needs.
- To equip students and communities with knowledge and skills to enable them meet their day to day challenges.
- To provide an avenue for exposing students through collaboration and partnership to different development institutions to appreciate different development approaches.
- To stimulate creativity and innovation among students by encouraging product development and participation in exhibitions organized locally and nationally.

### Career Opportunities

A student graduating with qualifications (Diploma or Degree) in development and humanitarian studies may be employed as; Community Development Worker, Fundraising/ Grants Manager, Entrepreneur, Humanitarian Aid/ Relief Worker, Disaster/ Risk Management Personnel/Officer, Project/Programs Manager, Security and Risk Analyst, Monitoring and Evaluation Officer, Lecturer/Community Educator, Human Rights/ Advocacy Officer, Civil servant, Development and Humanitarian Researcher, Community educator, Emergency Consultants, Emergency Management Coordinator, Firefighter.

A student graduating with a Bachelor of Journalism and Mass Communication will work as a Journalist, Public Relation Officer, news Anchor, News writer/ Reporter, press officer, Media Trainer, advocacy Officer, Radio/TV Presenter, News editor, Broadcast Journalist, Production Manager, Online Content manager, script writer, advertising campaign manager, communication research officer consultant, documentary/film director, media/entrepreneur to mention but a few.

### Education Field Trip Requirements

The Department of Development Studies requires all students to go for educational field trips twice during the first two years (for degree students) and once (for diploma

students), as a basic requirement for graduation. The purpose of these field trips is to equip students with first-hand experience that enhances their theoretical knowledge and practical experiences.

For Degree students two courses are attached to field trip and the report is part of the final grading. Students in first year, second semester the field trip report is part of the course requirements for BADS 1204 Project Planning and Management and the second field trip will be taken in second year, second semester as part of the course BADS 2213 Environment and Sustainable Development. In particular circumstances the Head of Department in consultation with faculty may opt to permit students to undertake a field trip with other courses other than those indicated above based on the objectives and activities the class wants to achieve. The reports will be handed to the lecturers teaching these courses for grading within two (2) weeks after the field trips.

Similarly, for Diploma students in year one the field trip will be attached to a course DDVT 1208 Participatory Rural Appraisal or DDVT: 2214 Project Planning and Management. The reports will be handed to the lecturers teaching these courses for grading within two (2) weeks after the field trip.

### **Delivery Mode**

The following methods will be used to deliver and assess students in the Department of Development and Humanitarian Studies programs; lectures, research, oral presentations, projects, field trips, workshops, seminars, community outreaches, tests, assignments and examinations.

**BACHELOR OF ARTS IN DEVELOPMENT STUDIES**

<b>Course Category</b>	<b>Credits</b>
Major concentration	48
Cognates	49
Language	06
Research	06
Industrial Attachment	06
General	21
<b>Total Credits</b>	<b>136</b>

**Major Concentration (48)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BADS 1101	Intro. to Development Studies	15	30	30	45	3
BADS 1102	Mgt Skills for Development	30	00	30	45	3
BADS 1103	Social Services	30	00	30	45	3
BADS 1204	Project Planning and Management	30	00	30	45	3
BADS 1205	Development Theory and Practice	30	00	30	45	3
BADS 2106	Development Communication	30	00	30	45	3
BADS 2107	Population and Development	30	00	30	45	3
BADS 2108	Development Ethics	30	00	30	45	3
BADS 2109	Resource Mobilization & Grant Writing	30	00	30	45	3
BADS 2210	Culture and Development	30	00	30	45	3
BADS 2211	Alternative Development Strategies	30	00	60	45	3
BADS 2212	Mon & Evaln of Dev't Programs	30	00	30	45	3
BADS 2213	Environ & Sustainable Development	30	00	30	45	3
BADS 2214	Local and Regional Development	30	00	30	45	3
BADS 3115	Technological Dev't & Social Change	30	00	30	45	3
BADS 3216	International Development	30	00	30	45	3

**Cognates (49)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BACD 1102	Rural Sociology	30	00	30	45	3
BACD 1205	Community Health & Development	30	00	30	45	3
BACD 2208	Community Participation for Dev't	15	00	60	45	3
BACD 3113	Agriculture and Rural Development	30	00	30	45	3
BACD 3121	Gender and Development	30	00	30	45	3
BECO 3205	Development Economics	30	30	00	45	3
BACD 3215	Group Dynamics & Voluntary Efforts	15	30	30	45	3
BACD 3216	Citizen Empowerment and Community Advocacy	30	00	30	45	3
BHEM 3227	Hunger and Food Security	30	15	00	45	3
BHRM 2209	Human Resource Management	30	30	00	45	3
BACC 1101	Fundamentals of Accounting	30	60	00	60	4
BPAM 2108	Civil Society Organization & Dev't	30	00	30	45	3
BPAM 2207	Public Policy	15	30	30	45	3
BPAM 3218	Development Administration	30	00	30	45	3
BPAM 3217	Political Economy	30	30	00	45	3
BPAM 3115	Local Government & Decentralization	30	00	30	45	3

**Language (06)**

Code	Name	LH	TH	PH	CH	CU
BSWL 3101	Sign Language I	30	00	30	45	3
BSWL 3202	Sign Language II	30	00	30	45	3

**Industrial Attachment (06)**

Code	Name	LH	TH	PH	CH	CU
BSFE 2301	Field Education I	00	00	90	45	3
BSFE 3302	Field Education II	00	00	90	45	3

**Research (06)**

Code	Name	LH	TH	PH	CH	CU
BREM 2201	Research Methods	30	30	00	45	3
BREP 3102	Research Project	00	30	30	45	3

**General Courses (21)**

Code	Name	LH	TH	PH	CH	CU
GECR 1101	Christian Beliefs	30	60	00	45	3
GECC 1101	Fundamentals of Computer & Office Appl	45	00	30	60	4
GECL 1101	Introduction to Writing Skills	30	60	00	45	3
GECS 1201	Issues in Science and Religion	30	00	30	45	3
GECS 1202	Statistics	30	30	00	45	3
GECA 1201	Philosophy of Christian Education	30	30	00	45	3
GEVC -----	Vocational Course (Choose One)	15	00	30	30	2

**Semester Schedule****First Year - First Semester**

Codes	General Courses	CU
GECR 1101	Christian Beliefs	3
GECC 1101	Fundamentals of Computer & Office Application	4
GECL 1101	Introduction to Writing Skills	3
BACD 1102	Rural Sociology	3
BADS 1101	Introduction to Development Studies	3
BADS 1102	Management Skills for Development	3
BADS 1103	Social Services	3
<b>Total</b>		<b>22</b>

**First Year - Second Semester**

Codes	General Courses	CU
GECS 1201	Issues in Science and Religion	3
GECS 1202	Statistics and Probability	3
GECA 1201	Philosophy of Christian Education	3
GEVC 12 - -	Choose Vocational Course	2
BADS 1204	Project Planning and Management	3
BADS 1205	Development Theory and Practice	3
BACD 1203	Community Health and Development	3
<b>Total</b>		<b>20</b>

**Second Year - First Semester**

Codes	General Courses	CU
BADS 2106	Development Communication	3



BADS	2107	Population and Development	3
BADS	2108	Development Ethics	3
BADS	2109	Resource Mobilization and Grant Writing	3
BADS	2110	Culture and Development	3
BACD	2111	Alternative Development Strategies	3
BACC	1101	Fundamentals of Accounting	4
<b>Total</b>			<b>22</b>

**Second Year - Second Semester**

<b>Codes</b>		<b>General Courses</b>	<b>CU</b>
BADS	2212	Monitoring and Evaluation of Development Programs	3
BADS	2213	Environment and Sustainable Development	3
BADS	2214	Local and Regional Development	3
BPAM	3218	Development Administration	3
BACD	2208	Community Participation for Development	3
BPAM	2207	Public Policy	3
BREM	2201	Research Methods	3
<b>Total</b>			<b>21</b>

**Second Year – Third Semester (Summer)**

<b>Codes</b>		<b>General Courses</b>	<b>CU</b>
BSFE	2301	Field Education 1	3
<b>Total</b>			<b>03</b>

**Third Year- First Semester**

<b>Codes</b>		<b>General Courses</b>	<b>CU</b>
BADS	3115	Technological Development & Social Change	3
BACD	3113	Agriculture and Rural Development	3
BSWL	3101	Sign Language I	3
BACD	3112	Gender and Development	3
BPAM	3115	Local Government and Decentralization	3
BECO	3205	Development Economics	3
BREP	3102	Research Project	3
<b>Total</b>			<b>21</b>

**Third Year- Second Semester**

<b>Codes</b>		<b>General Courses</b>	<b>CU</b>
BADS	3216	International Development	3
BPAM	2108	Civil Society Organization and Development	3
BHEM	3227	Hunger and Food Security	3
BACD	3215	Group Dynamics and Voluntary Efforts	3
BACD	3216	Citizen Empowerment & Community Advocacy	3
BPAM	3217	Political Economy	3
BHRM	2209	Human Resource Management	3
BSWL	3202	Sign Language II	3
<b>Total</b>			<b>24</b>

**Third Year - Third Semester (Summer)**

<b>Codes</b>		<b>General Courses</b>	<b>CU</b>
BSFE	3301	Field Education II	3
<b>Total</b>			<b>03</b>

## BACHELOR OF HUMANITARIAN EMERGENCY AND DISASTER MANAGEMENT (BHEM)

Course Category	Credits
Core Requirements	84
Cognates	06
Research	06
Industrial Attachment	06
General courses	21
<b>Total</b>	<b>123</b>

### Core Requirements (84 Hours)

Code	Name	LH	TH	PH	CH	CU
BHEM 1101	Principles of Emergency & Disaster Mgt	30	30	00	45	3
BHEM 1102	Disaster Mitigation & Preparedness	30	30	00	45	3
BHEM 1203	Disaster Response and Recovery	30	30	00	45	3
BHEM 1204	Reconstruction & Sustainable Dev't	30	30	00	45	3
BHEM 1205	Natural Hazard Mitigation & Climate Change	30	00	30	45	3
BHEM 1206	Emergency Planning and Analysis	30	30	00	45	3
BHEM 2107	Incident Command	30	30	00	45	3
BHEM 2108	Disaster and humanitarian Crisis	30	30	00	45	3
BHEM 2109	Hazardous Materials in Emergency Mgt	30	30	00	45	3
BHEM 2110	Environmental Health & Sanitation	30	30	00	45	3
BHEM 2111	Disaster and Risk Management	30	30	00	45	3
BHEM 2212	Introduction to Meteorology (lab)	45	00	30	60	4
BHEM 2213	Humanitarian Aid	30	30	00	45	3
BHEM 2214	Public Relations and Safety	30	30	00	45	3
BHEM 2215	Humanitarian Intervention in Emergencies	30	30	00	45	3
BHEM 3116	Human Rights & International humanitarian law	30	30	00	45	3
BHEM 3117	Technology & Emergency Mgt Sys.	45	00	30	60	4
BHEM 3118	Public Health & Humanitarian Crisis	30	00	30	45	3
BHEM 3119	Refugee Protection & Forced Migration	30	30	00	45	3
BHEM 3120	Emergency Response to Terrorism	30	00	30	45	3
BHEM 3221	Disaster Mental Health	30	30	00	45	3
BHEM 3222	Gender and Humanitarian Action	30	30	00	45	3
BHEM 3223	Global Health	30	30	00	45	3
BHEM 3224	Port Health	30	00	30	45	3
BHEM 3225	Workshop in Emergency & Disaster Management	30	00	30	60	4
BHEM 3226	Current Trends in Emergency Mgt	30	30	00	45	3
BHEM 3227	Hunger and Food Security	30	30	00	45	3

### Cognates (06 Credit Units)

Code	Name	LH	TH	PH	CH	CU
BADS 1204	Project Planning and Management	30	00	30	45	3
BACD 2113	Resource Mobilization & Grant Writing	30	00	30	45	3

**Internship: Industrial Attachment (06 Credit Units)**

Code	Name	LH	TH	PH	CH	CU
BSFE 2301	Field Education I	00	00	90	45	3
BSFE 3302	Field Education II	00	00	90	45	3

**Research (06 Credit Units)**

Code	Name	LH	TH	PH	CH	CU
BREM 2201	Research Methods	30	00	30	45	3
BREP 3102	Research Project	00	00	90	45	3

**General Education (21 Hours)**

Codes	General Courses	CU
GECL 1101	Christian Beliefs	3
GECH 1101	Health Principles	3
GECC 1101	Fundamentals of Computer & Office Applications	4
GECL 1101	Introduction to Writing Skills	3
GECS 1201	Issues in Science and Religion	3
GECS 1202	Statistics	3
GECA 1201	Philosophy of Christian Education	3
GECA 1202	Principles of Sociology	3
GECV 1201	Motor Vehicle Driving	2
GECV 1202	Tailoring	2
GECV 1203	Catering	2
GECV 1204	Music Appreciation	2
GECV 1205	Computer Repair	2

**Course Schedule****First Year Semester 1**

Codes	General Courses	CU
BHEM 1101	Principles of Emergency & Disaster Mgt	3
BHEM 1102	Disaster Mitigation and Preparedness	3
BHEM 1203	Disaster Response and Recovery	3
GEGR 1101	Christian Beliefs	3
GECC 1101	Fundamentals of Computer & Office Applications	4
GECL 1101	Introduction to Writing Skills	3
<b>Total</b>		<b>19</b>

**First Year Semester 2**

Codes	General Courses	CU
BADS 1204	Project Planning and Management	3
BHEM 1204	Reconstruction and Sustainable Development	3
BHEM 1205	Natural Hazard Mitigation & Climate Change	3
GECA 1202	Principles of Sociology	3
GECS 1202	Statistics	3
GECS 1201	Issues in Science and Religion	3
GECV 1201	Motor Vehicle Driving	2
<b>Total</b>		<b>20</b>

**Second Year Semester 1**

<b>Codes</b>	<b>General Courses</b>	<b>CU</b>
BACD 2113	Resource Mobilization & Grant Writing	3
BHEM 2106	Emergency Planning and Analysis	3
BHEM 2107	Incident Command	3
BHEM 2108	Disaster and humanitarian Crisis	3
BHEM 2109	Hazardous Materials in Emergency Mgt	3
BHEM 2110	Environmental Health and Sanitation	3
BHEM 2111	Disaster and Risk Management	3
<b>Total</b>		<b>21</b>

**Second Year Semester 2**

<b>Codes</b>	<b>General Courses</b>	<b>CU</b>
BHEM 2212	Principles of Meteorology (Lab)	4
BHEM 2213	Humanitarian aid	3
BHEM 2214	Public Relations and Safety	3
BHEM 2215	Humanitarian Intervention in Emergencies	3
BHEM 2216	Human Rights & International humanitarian law	3
BREM 2201	Research Methods	3
<b>Total</b>		<b>19</b>

**Summer**

<b>Codes</b>	<b>General Courses</b>	<b>CU</b>
BSFE 2301	Field Education I	3
<b>Total</b>		<b>3</b>

**Third Year Semester 1**

<b>Codes</b>	<b>General Courses</b>	<b>CU</b>
BHEM 3117	Technology & Emergency Management	4
BHEM 3118	Public Health in Humanitarian Crisis	3
BHEM 3119	Refugee Protection and Forced Migration	3
BHEM 3120	Emergency Response to Terrorism	3
BHEM 3121	Disaster Mental Health	3
BREP 3102	Research Project	3
<b>Total</b>		<b>19</b>

**Third Year Semester 2**

<b>Codes</b>	<b>General Courses</b>	<b>CU</b>
BHEM 3222	Gender and Humanitarian Action	3
BHEM 3223	Global Health	3
BHEM 3224	Port Health	3
BHEM 3225	Workshop in Emergency & Disaster Mgt	4
BHEM 3226	Current Trends in Emergency Management	3
BHEM 3227	Hunger and Food Security	3
<b>Total</b>		<b>19</b>

**Summer**

<b>Codes</b>	<b>General Courses</b>	<b>CU</b>
BSFE 3302	Field Education II	3
<b>Total</b>		<b>3</b>

## BACHELOR OF ARTS IN COMMUNITY DEVELOPMENT (BACD)

<b>Course Category</b>	<b>Credits</b>
Major Courses	48
Cognates	49
Industrial Attachment	06
Research	06
Languages	06
General Education Courses	21
<b>Total</b>	<b>136</b>

### Major Concentration 48 Hours

Code	Name	LH	TH	PH	CH	CU
BACD 1101	Intro. to Community Development	15	30	30	45	3
BACD 1102	Rural Sociology	30	00	30	45	3
BACD 1203	Community Health & Development	30	00	30	45	3
BACD 1204	Community Leadership & Governance	30	00	30	45	3
BACD 1205	Micro-Finance & Community Dev't	30	00	30	45	3
BACD 2106	Estate Administration & Mgt	30	00	30	45	3
BACD 2107	Poverty and Social Inequality	30	00	30	45	3
BACD 2208	Community participation for dev't	15	00	60	45	3
BACD 2209	Functional Adult Literacy	15	30	30	45	3
BACD 3110	Community Dev't Theory & Practice	30	00	30	45	3
BACD 3111	Indigenous Knowledge Systems	30	00	30	45	3
BACD 3112	Gender and Development	30	00	30	45	3
BACD 3113	Agriculture & Rural Development	30	00	30	45	3
BACD 3214	Sustainable Rural &Urban Livelihoods	15	30	30	45	3
BACD 3215	Group Dynamics &Voluntary Efforts	15	30	30	45	3
BACD 3216	Citizen Empowerment & community Advocacy	30	00	30	45	3

### Cognate 49 Hours

Code	Name	LH	TH	PH	CH	CU
BADS 1204	Project Planning and Management	30	00	30	45	3
BADS 2106	Development Communication	30	00	30	45	3
BADS 2108	Development Ethics	30	00	30	00	3
BADS 2109	Resource Mobilizations & Grant Writing	30	00	30	45	3
BADS 2212	Monitoring & Evaluation of Dev't Programs	30	00	30	45	3
BADS 2213	Environment & Sustainable Dev't	15	00	60	45	3
BPAM 2207	Public policy	15	30	30	45	3
BPAM 3112	Democracy and Human Rights	30	00	30	45	3
BPAM 3204	Strategic Planning and Management	30	00	30	45	3
BPAM 3217	Political Economy	30	30	00	45	3
BPCM 2111	Community Conflict Resolution Mechanisms	30	00	30	45	3
BSPC 2212	Theories, Skills and Techniques of Counselling	15	00	60	45	3

BHEM	1101	Introduction to Emergency & Disaster management	30	00	30	45	3
BACC	1101	Fundamentals of Accounting	30	60	00	60	4
BECO	3205	Development Economics	30	30	00	45	3
BHRM	3203	Human resource and management	30	30	00	45	3

### Practicum 06 HOURS

Code	Name	LH	TH	PH	CH	CU	
BSFE	2301	Field Education I	00	00	90	45	3
BSFE	3302	Field Education II	00	00	90	45	3

### Research Courses 06

Code	Name	LH	TH	PH	CH	CU	
BREM	2201	Research Methods	30	30	00	45	3
BREP	3102	Research Project	00	30	30	45	3

### Language Courses 06

Code	Name	LH	TH	PH	CH	CU	
BSWL	3101	Sign Language I	30	00	30	45	3
BSWL	3202	Sign Language II	15	00	60	45	3

### General Courses 21

Code	Name	LH	TH	PH	CH	CU	
GECR	1101	Christian Beliefs	30	60	00	45	3
GECC	1101	Fundamentals of Computers & Office Application	45	00	30	60	4
GECL	1101	Introduction to writing Skills	30	30	00	45	3
GECS	1202	Statistics and Probability	30	30	00	45	3
GECA	1201	Philosophy of Christian Education	30	30	00	45	3
GECV	1201	Motor Vehicle Driving	15	00	30	30	2
GECS	1201	Issues in science and Religion	30	30	00	45	3

### Semester Schedule

#### First Year First Semester

Codes	General Courses	CU	
GECR	1101	Christian Beliefs	3
GECC	1101	Fundamentals of Computers & Office Application	4
GECL	1101	Introduction to writing Skills	3
BACD	1101	Introduction to Community Development	3
BACD	1102	Rural Sociology	3
BHEM	1101	Introduction to Emergency and Disaster management	3
<b>Total</b>		<b>19</b>	

#### First Year Second Semester

Codes	General Courses	CU	
GECS	1202	Statistics and Probability	3
GECA	1201	Philosophy of Christian Education	3
GECV	1201	Motor Vehicle Driving	2
GECS	1201	Issues in science and Religion	3
BADS	1204	Project Planning and Management	3
BACD	1203	Community Health and Development	3
BACD	1204	Community Leadership and Governance	3
BACD	1205	Micro-Finance and Community Development	3
<b>Total</b>		<b>23</b>	

**Second Year First Semester**

<b>Codes</b>	<b>General Courses</b>	<b>CU</b>
BACC 1101	Fundamentals of Accounting	4
BACD 2106	Estate Administration and Management	3
BACD 2107	Poverty and Social Inequality	3
BPCM 2111	Community Conflict Resolution Mechanisms	3
BADS 2106	Development Communication	3
BADS 2108	Development Ethics	3
BADS 2109	Resource Mobilizations and Grant Writing	3
<b>Total</b>		<b>22</b>

**Second Year Second Semester**

<b>Codes</b>	<b>General Courses</b>	<b>CU</b>
BACD 2208	Community participation for development	3
BACD 2209	Functional Adult Literacy	3
BREM 2201	Research Methods	3
BPAM 2207	Public policy	3
BADS 2212	Monitoring and Evaluation of Dev't Programs	3
BADS 2213	Environment and Sustainable Development	3
BSPC 2212	Theories, Skills and Techniques of Counselling	3
<b>Total</b>		<b>21</b>

**Third Semester**

<b>Codes</b>	<b>General Courses</b>	<b>CU</b>
BSFE 2301	Field Education I	3
<b>Total</b>		<b>03</b>

**Third Year First Semester**

<b>Codes</b>	<b>General Courses</b>	<b>CU</b>
BACD 3110	Community Development Theory and Practice	3
BACD 3111	Indigenous Knowledge Systems	3
BACD 3112	Gender and Development	3
BACD 3113	Agriculture and Rural Development	3
BREP 3102	Research Project	3
BPAM 3112	Democracy and Human Rights	3
BSWL 3101	Sign Language I	3
<b>Total</b>		<b>21</b>

**Third Year Second Semester**

<b>Codes</b>	<b>General Courses</b>	<b>CU</b>
BACD 3214	Sustainable Rural and Urban Livelihoods	3
BACD 3215	Group Dynamics and Voluntary Efforts	3
BACD 3216	Citizen Empowerment and community Advocacy	3
BPAM 3204	Strategic Planning and Management	3
BPAM 3217	Political Economy	3
BSWL 3101	Sign Language I	3
BSWL 3202	Sign Language II	3
BECO 3205	Development Economics	3
BHRM 3203	Human resource and management	3
<b>Total</b>		<b>24</b>

**Third Semester**

<b>Codes</b>	<b>General Courses</b>	<b>CU</b>
BSFE 3302	Field Education II	3
<b>Total</b>		<b>03</b>

## BACHELOR OF ARTS IN PEACE AND CONFLICT MANAGEMENT

<b>Course Category</b>	<b>Credits</b>
Major Courses	73
Cognates	24
General Education Courses	21
Industrial Attachment	06
Research	06
<b>Total</b>	<b>130</b>

### Major Concentration Category – 73Hours

Code	Name	LH	TH	PH	CH	CU
BPCM 1101	Intro. to Peace and Conflict Mgt	30	30	00	45	3
BPCM 1102	Theories in Peace and Conflict Mgt	30	30	00	45	3
BPCM 1103	Community Psychology	30	15	15	45	3
BPCM 1204	Religion and Conflict management	30	30	00	45	3
BPCM 1205	Environmental Conflict	30	15	15	45	3
BPCM 1206	Models of Peace Building & peace keeping	30	30	00	45	3
BPCM 2107	International Humanitarian Law	30	30	00	45	3
BPCM 1208	Psychology of Peace & Conflict Mgt	30	30	00	45	3
BPCM 2109	Gender and Conflict management	30	15	15	45	3
BPCM 2110	Conflict mapping	30	15	15	45	3
BPCM 2111	Re Settlement and Re integration	30	30	00	45	3
BPCM 2112	Conflict Resolution Mechanisms	30	30	00	45	3
BPCM 2213	Conflict analysis and Transformation	30	30	00	45	3
BPCM 2214	Community mediation - theory & Practice	30	15	15	45	3
BPCM 2215	Refugees & Humanitarian Assistance	30	30	00	45	3
BPCM 2216	United Nations and Peace Keeping	30	30	00	45	3
BPCM 2217	Comparative International Education for Peace	30	30	00	45	3
BPCM 2218	Traditional Justice & Peace building	30	15	15	45	3
BPCM 3119	Skills in Conflict Resolution	30	15	15	45	3
BPCM 3120	Community Conflict engagements	30	00	30	45	3
BPCM 3121	Conflict Resolution & Peace building	30	30	00	45	3
BPCM 3221	The Politics of Humanitarianism	30	30	00	45	3
BPCM 3223	Post conflict reconstruction and Peace Building	30	30	00	45	3
BPCM 3224	Seminar in Peace and Conflict Mgt	15	30	60	45	4

### Cognate Category – 24hours

Code	Name	LH	TH	PH	CH	CU
BADS 1204	Project Planning and Management	30	30	00	45	3
BPAM 1204	Governance and Politics in Africa	30	30	00	45	3
BPAM 3112	Democracy and Human Rights	30	15	15	45	3
BHRM 2209	Human Resource management	30	30	00	45	3
BSWA 3116	Administrative law	30	30	00	45	3
BPCM 3222	Community Advocacy for Social Change	30	30	00	45	3
BPAM 3218	International Relations & Diplomacy	30	30	00	45	3
BPAM 3217	Political economy	30	30	00	45	3



**Research Category – 06 hours**

Code	Name	LH	TH	PH	CH	CU
BREM 2201	Research Methods	30	30	00	45	3
BREP 3102	Research Project	00	30	60	45	3

**General Category – 21hours**

Code	Name	LH	TH	PH	CH	CU
GECR 1101	Christian Beliefs	30	30	00	45	3
GECH 1101	Health Principles	30	30	00	45	3
GECC 1101	Fundamentals of Computer and Office Application	45	00	30	60	4
GECL 1101	Introduction to writing Skills	30	30	00	45	3
GECS 1202	Statistics	30	30	00	45	3
GECA 1202	Principles of Sociology	30	30	00	45	3
GECV 1203	Music Appreciation	15	00	30	30	2

**Practicum Category – 06Hours**

Code	Name	LH	TH	PH	CH	CU
BSFE 2301	Field Education I	00	00	90	45	3
BSFE 3302	Field Education II	00	00	90	45	3

**Schedule as per semester****Year One First Semester**

Codes	General Courses	CU
GECR 1101	Christian Beliefs	3
GECH 1101	Health Principles and HIV/AIDS	3
GECC 1101	Fundamentals of Computer and Office Application	4
GECL 1101	Introduction to Writing Skills	3
BPCM 1101	Introduction to Peace and Conflict Management	3
BPCM 1102	Theories in Peace and Conflict Management	3
BPCM 1103	Community Psychology	3
<b>Total</b>		<b>22</b>

**Year One Second Semester**

Codes	General Courses	CU
GECS 1202	Statistics	3
GECA 1202	Principles of Sociology	3
GECV ...	Choose Vocational Course	2
BADS 1204	Project Planning and Management	3
BPCM 1204	Religion and Conflict management	3
BPCM 1205	Environmental Conflict	3
BPCM 1206	Models of Peace Building and Peace Keeping	3
<b>Total</b>		<b>20</b>

**Year Two Semester One**

Codes	General Courses	CU
BPCM 2107	International Humanitarian Law	3
BPCM 1208	Psychology of Peace and Conflict Management	3
BPAM 1204	Governance and Politics in Africa	3
BPCM 2109	Gender and Conflict management	3
BPCM 2110	Conflict Mapping	3

BPCM	2111	Re Settlement and Re-integration	3
BPCM	2112	Conflict Resolution Mechanisms	3
<b>Total</b>			<b>21</b>

**Year Two Semester Two**

<b>Codes</b>		<b>Courses</b>	<b>CU</b>
BREM	2201	Research Methods	3
BPCM	2213	Conflict analysis and Transformation	3
BPCM	2214	Community mediation - theory and Practice	3
BPCM	2215	Refugees and Humanitarian Assistance	3
BPCM	2216	United Nations and Peace Keeping	3
BPCM	2217	Comparative International Education for Peace	3
BPCM	2218	Traditional Justice and Peace building	3
<b>Total</b>			<b>21</b>

**Year Two Third Semester**

<b>Codes</b>		<b>Course</b>	<b>CU</b>
BSFE	2301	Field Education I	3

**Year Three Semester One**

<b>Codes</b>		<b>Courses</b>	<b>CU</b>
BPCM	3119	Skills in Conflict Resolution	3
BPCM	3120	Community Conflict engagements	3
BPCM	3121	Conflict Resolution and Peace building	3
BPAM	3112	Democracy and Human Rights	3
BSWA	3116	Administrative law	3
BREP	3102	Research Project	3
<b>Total</b>			<b>18</b>

**Year Three Semester Two**

<b>Codes</b>		<b>Courses</b>	<b>CU</b>
BPCM	3222	The Politics of Humanitarianism	3
BPCM	3222	Community Advocacy for Social Change	3
BPCM	3224	Post conflict reconstruction and Peace Building	3
BPAM	3218	International Relations and Diplomacy	3
BPAM	3217	Political economy	3
BHRM	2209	Human Resource management	3
BPCM	3224	Seminar in Peace and Conflict management	4
<b>Total</b>			<b>22</b>

**Third Year Third Semester**

<b>Codes</b>		<b>Course</b>	<b>CU</b>
BSFE	3302	Field Education II	3

## DIPLOMA IN DEVELOPMENT STUDIES

Course Category	Credits
Major Concentration	59
Cognates	06
Research	06
Industrial Attachment	03
General Education	13
<b>Total Credits</b>	<b>87</b>

### Major Concentration (59)

Code	Name	LH	TH	PH	CH	CU
DDVT 1101	Introduction to Development Studies	15	30	30	45	3
DDVT 1202	Development Theory	30	00	30	45	3
DDVT 1203	Introduction to Gender & Dev't	30	00	30	45	3
DDVT 1204	Psychology of Social Change	30	00	30	45	3
DDVT 1205	Sociology of Organizations	30	00	30	45	3
DDVT 1206	Human Resource Mgt in CSO's	30	00	30	45	3
DDVT 1207	Intro to statistics for Social Science	30	30	00	45	3
DDVT 1208	Participatory Rural Appraisal	30	30	00	45	3
DDVT 2109	Proposal Writing Skills	30	30	00	45	3
DDVT 2110	Development Communication Skills	30	30	00	45	3
DDVT 2111	Social Policy and Social Planning	30	30	30	60	4
DDVT 1212	Social Services	30	00	30	45	3
DDVT 2113	Population Studies	30	00	30	45	3
DDVT 2214	Project Planning and Management	30	30	00	45	3
DDVT 2215	Human Rights	30	00	30	45	3
DDVT 2216	Urban Social Development	30	00	30	45	3
DDVT 2217	Community and Rural Development	30	30	30	60	4
DDVT 2218	Environment and Development	30	00	30	45	3
DDVT 2219	Introduction Political Economy	30	00	30	45	3

### Cognates (06 hours)

Code	Name	LH	TH	PH	CH	CU
DACC 1101	Elementary Financial Accounting	30	30	00	45	3
DECO 1101	Elementary Economics	30	30	00	45	3

### Industrial Attachment (03 hours)

Code	Name	LH	TH	PH	CH	CU
DSFE 2301	Field Education I	00	00	90	45	3

### Research (06 hours)

Code	Name	LH	TH	PH	CH	CU
DREM 2201	Research Methods	30	30	00	45	3
DREP 2202	Research Project	00	30	30	45	3

### General Courses (13hours)

Code	Name	LH	TH	PH	CH	CU
GE CR 1101	Christian Beliefs	30	30	00	45	3
GE CH 1101	Health Principles	30	00	30	45	3
GE CC 1101	Fundamentals of Computer & Office Appl	45	00	30	60	4
GE CL 1101	Introduction to Writing Skills	30	60	00	45	3

**Semester Schedule****First Year - First Semester**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
DDVT 1101	Introduction to Development Studies	3
GECR 1101	Christian Beliefs	3
GECC 1101	Fundamentals of Computer and Office Application	4
GECL 1101	Introduction to Writing Skills	3
GECH 1101	Health Principles	3
DACC 1101	Elementary Financial Accounting	3
DECO 1101	Elementary Economics	3
<b>Total</b>		<b>22</b>

**First Year- Second Semester**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
DDVT 1202	Development Theory	3
DDVT 1203	Introduction to Gender and Development	3
DDVT 1204	Psychology of Social Change	3
DDVT 1205	Sociology of Organizations	3
DDVT 1206	Human Resource Management in Civil Society Organizations	3
DDVT 1207	Introduction to Statistics for Social Science	3
DDVT 1208	Participatory Rural Appraisal	3
<b>Total</b>		<b>21</b>

**Second Year- First Semester**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
DDVT 2109	Proposal Writing Techniques	3
DDVT 2110	Development Communication Skills	3
DDVT 2111	Social Policy and Social Planning	4
DDVT 2112	Social Services	3
DDVT 2113	Population Studies	3
DREM 2201	Research Methods	3
<b>Total</b>		<b>19</b>

**Second Year- Second Semester**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
DDVT 2214	Project Planning and Management	3
DDVT 2215	Human Rights	3
DDVT 2216	Urban Social Development	3
DDVT 2217	Community and Rural Development	4
DDVT 2218	Environment and Development	3
DDVT 2219	Introduction to Political Economy	3
DREP 2202	Research Project	3
<b>Total</b>		<b>22</b>

**Second Year – Third Semester (summer)**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
DSFE 2301	Field Education I	3
<b>Total</b>		<b>03</b>

**BACHELOR OF JOURNALISM AND MASS COMMUNICATION**

<b>Course Category</b>	<b>Credits</b>
Major Concentration	90
Language	12
Research	06
Practicum	06
Cognates	06
General courses	21
<b>Total</b>	<b>141</b>

**Major Concentration (97)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BJMC 1101	Introduction to Broadcasting	30	30	00	45	3
BJMC 1102	Intro. to Mass Communication	30	00	30	45	3
BJMC 1103	Writing for Media	30	00	30	45	3
BJMC 1204	Radio and TV News Journalism	30	00	30	45	3
BJMC 1205	Communication Skills	30	00	30	45	3
BJMC 1206	Media, Culture and Society	30	00	30	45	3
BJMC 2107	Theories of Media & Communication	30	30	00	45	3
BJCM 2108	Media History	30	30	00	45	3
BJCM 2109	Script Writing	30	30	00	45	3
BJMC 2110	Intro to Public Relations & Practice	30	30	00	45	3
BJMC 2111	Advertising and Copy Lay out	30	00	30	45	3
BJMC 2112	Radio and TV production	30	00	30	45	3
BJMC 2113	News Writing & Specialized Reporting	30	30	00	45	3
BJMC 2214	Graphics Design 1	30	00	30	45	3
BJCM 2215	Media Law and Ethics	30	00	30	45	3
BJMC 2216	Interactive Multimedia	30	30	00	45	3
BJMC 2217	Photojournalism and Videography	30	00	60	60	4
BJMC 3118	Newspaper Editing, design & Layout	30	00	60	60	4
BJMC 3119	Multi Media, Animation & Production	30	00	60	60	4
BJMC 3120	Media and Human Rights	30	00	30	45	3
BJMC 3121	Social Media Marketing	30	00	30	45	3
BJMC 3222	Analytical and Opinion Writing	15	00	60	45	3
BJMC 3223	Public affairs Reporting	15	00	60	45	3
BJMC 3224	Media Management	30	00	30	45	3
BJMC 3225	Public relations Strategy	30	00	30	45	3
BJMC 3226	Public Information Programs	30	00	30	45	3
BJMC 3227	Newspaper & Magazine Production	15	00	60	45	3
BJMC 3228	Film and Documentary Production	15	00	60	45	3

**Language Option (12)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BJML 1101	Lug. Orthography	30	30	00	45	3
BJML 1202	Lug. Language & Communication	30	00	30	45	3
BJML 2103	Translation & Interpretation of Lug.	30	00	30	45	3
BJML 2204	Luganda Literature	30	00	30	45	3
BJMK 1101	Kiswahili writing Skills	30	00	30	45	3
BJMK 1202	Kiswahili Language Communication	30	00	30	45	3

BJMK	2103	Kiswahili Translation & Interpretation	30	30	00	45	3
BJMK	2204	Creative Writing in Kiswahili	30	30	00	45	3
BJMF	1101	Basic French Communication Skills	30	30	00	45	3
BJMF	1202	French Language Communication	30	30	00	45	3
BJMF	2103	Intermediate French Communication skills	30	30	00	45	3
BJMF	2204	Advanced French Language	30	00	30	45	3

**Cognates (06 hours)**

Code	Name	LH	TH	PH	CH	CU	
BPAM	1102	Introduction to Political Science	30	30	00	45	3
BACD	1203	Community Health & Development	30	30	00	45	3

**Industrial Attachment (03 hours)**

Code	Name	LH	TH	PH	CH	CU	
BJMP	2301	Journalism & Mass Communication Practicum I	00	00	90	45	3
BJMP	3302	Journalism & Mass Communication Practicum II	00	00	90	45	3

**Research (06 hours)**

Code	Name	LH	TH	PH	CH	CU	
BREM	2201	Research Methods in Media	30	30	00	45	3
BREP	3102	Research Project in Media	00	30	60	45	3

**General Courses (21hours)**

Code	Name	LH	TH	PH	CH	CU	
GECR	1101	Christian Beliefs	30	30	00	45	3
GECC	1101	Fundamentals of Computer and Office Application	45	00	30	60	4
GECL	1101	Introduction to writing Skills	30	30	00	45	3
GECA	1201	Philosophy of Christian Education	30	30	00	45	3
GECS	1202	Statistics	30	30	00	45	3
GECA	1202	Principles of Sociology	30	30	00	45	3
GECV	12 --	Any Approved Vocational Course	15	00	30	30	2

**Semester Schedule****First Year First Semester**

Codes	Course Title	CU	
GECL	1101	Introduction to Writing Skills	3
GECC	1101	Fundamental of Computer and Office Applications	4
GECR	1101	Christian Beliefs	3
BJMC	1101	Introduction to Broadcasting	3
BJMC	1102	Introduction to Mass Communication	3
BJMC	1103	Writing for Media	3
BPAM	1102	Introduction to Political Science	3
<b>Language Option choose one option</b>			
BJML	1101	Luganda Orthography	3
BJMK	1101	Kiswahili Writing Skills	3
BJMF	1101	Basic French Communication Skills	3
<b>Total</b>		<b>24</b>	

**First Year Second Semester**

<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
BJMC	1204	Radio and TV News Journalism	3
BJMC	1205	Communications Skills	3
BJMC	1206	Media, Culture and Society	3
GECA	1201	Philosophy of Christian Education	3
GECS	1201	Statistics	3
GECA	1202	Principles of Sociology	3
GECV	12 --	Choose any Approved General Vocational Course	2
<b>Language Option choose one option</b>			
BJML	1202	Luganda Language and Communication	3
BJMK	1202	Kiswahili Language Communication	3
BJMF	1202	French Language Communication	3
<b>Total</b>			<b>23</b>

**Second Year- First Semester**

<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
BJMC	2107	Theories of Media and Communication	3
BJMC	2108	Media History	3
BJMC	2109	Script Writing	3
BJMC	2110	Introduction to Public Relations and Practice	3
BJMC	2111	Advertising and Copy Lay Out	3
BJMC	2112	Radio and TV Production	3
<b>Language Option choose one option</b>			
BJML	2103	Translation and Interpretation of Luganda	3
BJML	2103	Kiswahili Translation and Interpretation	3
BJML	2104	Intermediate French Communication Skills	3
<b>Total</b>			<b>21</b>

**Second Year- Second Semester**

<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
BJMC	2214	News Writing and Specialized Reporting	3
BJMR	2201	Research Methods in Media	3
BJMC	2214	Graphics Designing	3
BACD	1203	Community Health and Development	3
BJMC	2215	Media Law and Ethics	3
BJMC	2216	Interactive Multi Media	3
BJMC	2217	Photojournalism and Videography	4
<b>Language Option choose one option</b>			
BJML	2204	Luganda Literature I	3
BJMK	2204	Creative Writing in Kiswahili	3
BJMF	2204	Advanced French Language Usage	3
<b>Total</b>			<b>25</b>

**Summer**

<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
BJMP	2301	Journalism and Mass Communication Practicum I	3
<b>Total</b>			<b>3</b>

**Third Year- First Semester**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
BJMR 3102	Research Project in Media	3
BJMC 3118	Newspaper Editing, Design and Layout	4
BJMC 3119	Multi Media, Animation and Production	4
BJMC 3120	Media and Human Rights	3
BJMC 3121	Social Media Marketing	3
<b>Total</b>		<b>21</b>

**Third Year- Second Semester-**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
BJMC 3222	Analytical and Opinion Writing	3
BJMC 3223	Public Affairs Reporting	3
BJMC 3224	Media Management	3
BJMC 3225	Public Relation Strategies	3
BJMC 3226	Public Information Programs	3
BJMC 3227	News Papers and Magazine Production	3
BJMC 3228	Film and Documentary Production	3
<b>Total</b>		<b>21</b>

**Summer**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
BJMP 3302	Journalism and Mass Communication Practicum II	3
<b>Total</b>		<b>3</b>



## COURSE DESCRIPTION DEVELOPMENT STUDIES

### **BADS/DDVT 1101 Introduction to Development Studies**

This course provides an in-depth introduction to the multi-disciplinary field of development studies. It introduces students to key debates in development theory, to the history of development policy and practice, and to the range of multilateral, bilateral and NGO organizations that are currently engaged in the development enterprise. Through a series of empirically-rich case-studies, drawn from across the developing and newly-industrialized worlds, the course also looks at the main sectors in which development organizations engage, including: governance and security, health, education, environmental and natural resource management, and legal reform.

### **BADS 1102 Management Skills for Development**

This course draws from lessons in business, sport, psychology, public administration and political science to gain useful ideas, insights and principles in management of development process at individual, family, community and national level and their application to the global society. The course recognizes that management skills for development can also come from observing good management role models, and mentorship by an experienced manager. Management skills are mandatory requirement in running activities, managing projects, programs, executing policies relate the development process both at state level or local government. Such skills are also the bedrock in planning and management in the with the private sector/civil society framework. The course will take a student from basic level of management and to a more advanced level of dealing and managing human and capital resources in a sustainable manner.

### **BADS 1103/DDVT 1212 Social Services**

This course introduces the student to a variety of local programs and services for needy people in local communities assisted by state and non-state actors. Social Service programs aim at providing people with social security and welfare as set forth in the constitution and local governments statutes on what constitute holistic livelihood for citizens in a given context. The course will provide students with knowledge and skills of providing social service in local contexts. The course will further equip development students with skills to lobby and advocate for social services for the most vulnerable in society including financial and protective services for seniors.

### **BADS 1204/DDVT 2214 Project Planning and Management**

This course introduces the unique characteristics and fundamentals of project planning and management. It explores how people and teams influence project planning. Learners will examine the fundamentals required for successful project management including: goals setting, the project team, scheduling, budgeting and communications. Learns will develop project management skills by practicing different scheduling techniques, creating sound and transparent budgets and applying the soft skills of project management that include team building and communication.

### **BADS 1205/DDVT 1202 Development Theory and Practice**

Development Theory and Perspectives is a course that exposes students to the major models, theories and concepts in development studies. Several scholars have come up with their own reasons why they think the poor are poor. Their philosophies will be discussed in detail by the class to understand the reasons contributing to the divide between the very rich nations and the very poor ones

### **BADS 2106/DDVT 2110 Development Communication**

The course is geared towards an understanding of communication theories, models and concepts. It considers interpersonal group dynamics, mass communication networks, and an analytical survey of communication media, for development within intercultural perspective. Development students will be taught how to work and use media tools to advance socio-economic agenda.

### **BADS 2107/DDVT 2113 Population and Development**

This course introduces students to population issues, concepts, theories and methods by encompassing the entire field of demography its principles and practice. The course offers an overview of various aspects of demographic growth and transition relating to changes in health and mortality, fertility, migration, age structure, urbanization, family and household structure. The course will interrogate the relationship between population and development and their potential consequences from a sociological, economic and geographical perspective. The impact of population explosion on environment will also be given attention in this course.

### **BADS 2108 Development Ethics**

Development Ethics is a course that enables participants to understand critical ethical issues, which impinge on the planning for, as well as the implementation and evaluation of, the development process within the context of their own environments and culture. The course will emphasize the practical application of ethics in development and the necessity for students to define for themselves a personal development ethic based on their own culture and value systems. Topics under study will include but not limited to the nature and methods of development, ethical strategies and general principles, vertical and horizontal worldviews, the politics of aid and debt and ethical decisions in development. To facilitate such reflection, the course will be highly interactive with considerable time devoted to group discussion of case study material.

### **BADS 2109 Resource Mobilization and Grant Writing**

The course will help the students identify the current gap in resources for sustainable programme intervention. It will help to understand the diverse sources and methods to mobilize resources. Participants will understand the significance of relationship building in resource mobilization. The overall objective of the Course in Proposal Writing and Resource Mobilization is to enable the learner to mobilize a diverse range of financial and non-financial resources for their Organisation. A student will be exposed to different kinds of proposal formats for different donors/organizations and acquainting students with different organizations, funders and their objectives providing discerned view of the practice and techniques of fundraising. A fundable proposal must be submitted for funding towards the selected organization as one of the class requirements

### **BADS 2110 Culture and Development**

This course aims at exposing students of development on the relationship between culture and development i.e. the way people interpret phenomena using culture. In the broad sense, it includes the values, norms, customs, roles and role expectations, and social institutions. Students will also be introduced to concepts, which affect development in different ways including cultural beliefs, attitudes, practices and development.

### **BADS 2211 Alternative Development Strategies**

This course seeks to provide new policy approaches needed to address devastating global development challenges and to avoid the potentially catastrophic consequences to livelihoods worldwide that are likely to result from present approaches. The course

further seeks to identify a development strategy capable of promoting a broad-based economic recovery and at the same time guaranteeing social equity and environmental sustainability both within countries and international spheres. This new development approach seeks to promote the reforms needed to improve global governance, providing a more equitable distribution of global public goods. The course will be guided by discourse from scholars who offer a critical evaluation of past development experiences and report on their creative search for new and well thought out answers for the future.

### **BADS 2212 Monitoring and Evaluation of Development Programs**

Monitoring and Evaluation (M&E) Systems are a requirement in all development projects and programs. Demand from development agencies, companies and NGOs create an interesting market for monitoring and evaluation experts. This course enables you to acquire the monitoring and evaluation skills highly demanded in the development industry. At the end of the course a student should be capable of designing and managing Monitoring and Evaluation Systems which meet the standards of donor agencies.

### **BADS 2213/DDVT 2218 Environment and Sustainable Development**

The course focuses on how environmental and resource management principles relate to the social, cultural, political and public domains for sustainable development. The course stresses inter disciplinary dimensions of the environment as they impact on development

### **BADS 2214 Local and Regional Development**

This course deals with the dimension of local and regional development management and institutions related to local and regional economic development. It dwells on the socio-economic implications of the emergence of local and regional governments and institutions as key actors in the design and implementation of economic development strategies across the world. The course will dwell on the consequences for economic efficiency and equality of the gradual but relentless shift of development responsibilities from the national and the supranational to the local and regional scale, linked of political and fiscal decentralisation. The course will also focus on theoretical and empirical perspective, on the strategies being implemented by subnational governments across the world in order to cope and redress development problems. Strategies based on the building of infrastructure, the attraction of foreign direct investment, the support to local production and the promotion of local human resources are analysed in different institutional and governance contexts. The course will draw mainly lesson from around the world but contextualize them to Africa and East Africa in particular.

### **BADS 3115 Technological Developments for Social Change**

This course discusses the appropriateness of technology to the existing physical and socio-cultural condition of low-income communities in rural and urban areas of Third World countries. Particular emphasis is put on how different appropriate technology packages can benefit the local people by helping them meet needs and earn a living while protecting the environment. This course further highlights the growing recognition that high-tech solutions to problems of underdeveloped nations are no longer satisfactory. Instead, a more appropriate, or less sophisticated, technological level is necessary for these developing nations. To successfully transfer technological knowledge of this type to the Third World, a profound understanding of the mores, beliefs, and needs of the people of these nations is vital.

### **BADS 3216 International Development**

This course is designed to introduce students to key issues and themes in international development. Students will explore and engage with academic debates and discussions

around a set of key factors which shape, influence and constrain the development and prosperity of nations. The course will explore a number of key themes in international development, including how questions of gender and generation shape the impact of poverty; how processes of globalization, migration and violent conflict impact on development; and how development and the environment are linked. It also considers what exactly we mean by poverty, and how different ways of understanding poverty feed into different approaches to tackling it. It will also consider development institutions and seek answers to key questions such as; what are the key institutions in the architecture of international development? How do they differ, and what are the challenges and opportunities they present? Through this course, students will gain a solid background in the various factors which shape current approaches to and debates on international development.

### **BREM 2201 Research Methods**

This course will provide content on the logic of inquiry and the necessity for an empirical approach to practice. It involves the techniques of identifying research topics, the process of formulating appropriate research questions and hypotheses, techniques for testing relationships and patterns among variables, reviewing literature, methods of data collection, choosing samples, methods to assess and improve the validity and reliability of data and measures, construction of research tools, the ethics of scientific inquiry and report preparation will be addressed. A proposal must be completed, presented, submitted and approved. A student should present the proposal for grading by the end of the semester ready for the research project

### **BREP 3102 Research Project**

Overview of how research is done and how to understand scholarly work including reading, understanding and applying studies from their field of research. The course involves an original and independent study of a selected priority problem under the guidance of a Research Director. The student individually, with close supervision by a research director, writes a report in line with the proposal approved under research methods. The report clearly brings out the link between the study topic, study problem, research questions, objectives, hypothesis, theoretical framework, conceptual framework, operational definitions observations and conclusion. The student carries out data collection, data analysis, compiles a report. The student defends the report before a panel of at least three people and the class who give comments on areas that need improvement. The student integrates comments/corrections during defense. Finally, the student submits a well-typewritten Research Report/Thesis to the department for a given Research Project. The report must be approved by the head of department and the dean in order to earn a grade for this course.

### **BSFE 2301 and 3302 Field Education I & II (400 hrs)**

The course is intended to help students apply foundation knowledge of Humanitarian skills, values and ethics in practice. The course consists of a field placement and a field seminar. With faculty approval, students will select a community-based project for a practicum in an emergency preparedness site or facility. The student is expected to acquire the skills and experience in the application of emergency preparedness. Students in the practicum must complete a comprehensive written paper and final oral presentation to the DEM faculty. At the end of each field placement, there will be an overall assessment based on the report of the supervisor in the placement agency; the student's prescribed field report, and the university staff supervisor's assessment. These will contain standard guidelines for the field agency supervisor, for the students, and for the university staff supervisor. Students will be required to pass in both fieldwork practices as stipulated in

the bulletin. A student pursuing a Bachelor of Humanitarian Emergency and Disaster Management (BHEM) degree course will be awarded the degree only if he or she satisfies all the requirements for fieldwork, which is an integral component of the BHEM. Each course entails a completion of ten (10) weeks of the semester

#### **DDVT 1206 Human Resource Management in CSO's**

This course, aims to provide a general introduction to human resource principles in CSO's. Furthermore, students will understand the concepts and language of management and to be aware of the relationships among all management disciplines. The overall objective is to introduce the fundamental areas of management in a broad-based manner, and encourage awareness of some of the current issues facing managers. The course also has a small business, service-enterprise orientation to help equip aspirant entrepreneurs and professionals with some of the skills and aptitudes necessary for managing one's own business within a challenging and dynamic environment, using Uganda examples, where possible and appropriate.

#### **DDVT 1207 Introduction to Statistics for Social Science**

Descriptive and inferential statistics aimed at students in the social sciences. Scales of measurement. Descriptive statistics. Measures of association. Hypothesis tests and confidence intervals.

#### **DDVT 2109 Proposal Writing Techniques**

This is an introductory course leading to the development of skills needed in writing proposals of funding development programmes. Students will also be exposed to other fundraising techniques to be used in obtaining the necessary funding for various projects

#### **DREM 2201 Research Methods**

This course introduces students to the theoretical aspect of how to conduct research. Research methods and techniques are emphasized as a preparation of how students should carry out research. A research process should be introduced to students as, identification and formulation of research problem, objectives, questions, hypothesis, and scope, significance of the study, literature review, Methodology, analysis of data and its presentation

The aim of the Research Methods course is to provide an integrated training in methods appropriate for undertaking primary research on dry lands livelihoods and to prepare participants to be able to undertake present and analyze a piece of primary research in their chosen specialized area.

#### **DREP 2202 Research Project**

An introductory Study of selected priority problem and preparation of research project following the APA style. A proposal must be completed and submitted and data must be collected and encoded, a print out of results must be submitted, research project completed and submitted to the department, school and library

#### **DSFE 2301 Field Education**

These are courses done by students in supervised placements in any set up of agencies. A student is required to complete a total of 400 hours in the field. A service experience report, which is detailed, should be submitted at the end of the practicum (three copies). Students are required to have hands on experience in a development organization so that they can practice skills learnt in class. They are to attend fields for training and participate in development process like community mobilizations, advocacy projects, capacity building, health and development activities, project planning and management, monitoring and evaluation, organization of seminars, workshops and aide on operational research projects.

## **COURSE DESCRIPTION FOR HUMANITARIAN EMERGENCY AND DISASTER MANAGEMENT**

### **BHEM 1101 Principles of Emergency and Disaster Management**

Overview of issues related to disaster management including a history of the field, key legislation impacting the field, comprehensive emergency management and integrated emergency management, and current issues in the field. Emergency and disaster management is aimed at introducing and critically analysing key concepts in disaster management, basic concepts of emergency, disaster, hazard, vulnerability, preparedness, response and recovery will be covered. The course also introduces students to the genealogy of various disasters including natural and manmade (technological) and how they can be handled in emergency situations. The disaster cycle will be presented and analysed. The dynamics of vulnerability and risks will be explored Elements of disaster management will be covered. Disaster management agencies and humanitarianism work together with community interventions will be discussed and analysed.

### **BHEM 1102 Disaster Mitigation and Preparedness**

This is a course on applied hazard mitigation; the focus will not be only on the fundamentals of hazard mitigation but on the fundamentals and their application. Foundations of Emergency Management. The application aspect of this course addresses the relationship of hazards and their behaviors which cause disasters and how local, state agencies can mitigate the potential threats. Hazard mitigation is actually hazards management, much like emergency preparedness, response, and recovery has to do with disaster management. The approach used is to address hazards management or the management of hazards so that future disaster impacts will be reduced or eliminated.

### **BHEM 1203 Disaster Response and Recovery**

This course covers basic principles of preparedness: getting informed, emergency planning and checklists, simulation and maintaining disaster preparedness plans. Natural hazards-specific preparedness: e.g. floods, thunderstorm and lightning, earthquakes, tsunamis, fires, volcano eruptions and landslides. Preparedness and prevention strategies for technological emergencies: household, industrial and workplace hazards, hazardous material accidents and nuclear power plants. Preparedness measures for terrorism incidents: explosions, biological and chemical threats. Preparedness and public awareness. Insurance and disaster preparedness. Disaster preparedness in selected African states. Challenges in disaster preparedness and prevention. It also covers how people, groups, organizations, communities and governments manage disaster in the immediate aftermath and long-term including social, physical, business, and infrastructure problems as well as intra and inter-organizational issues.

### **BHEM 1204 Reconstruction and Sustainable Development**

In this course students will learn the importance of development after the occurrence of a disaster. Challenges and opportunities found in the reconstruction stage of the disaster management process for sustainable development. It will further assist students to help communities to develop and re-establish social cohesion. They will be able to partner with communities in implementing structures and processes which promote long-term stability and independence. It will further help students to focus on future planning, identification and utilization of available resources without exhausting them. Issues in foreign aid will be discussed.



### **BHEM 1205 Natural Hazard Mitigation and Climate Change**

The purpose of the Natural Hazard Mitigation is twofold: to introduce the concepts and skills and mitigation and recovery planning to the students and to relate natural hazard mitigation processes to disaster planning. The course begins with an understanding of hazard and risk analysis, how to develop mitigation strategies for successful mitigation and recovery activities while addressing the political, economic, and legal issues involved in the implementation of a community wide program.

### **BHEM 1206 Emergency Planning and Analysis**

This course provides the skills and knowledge needed for hazard mitigation planning and implementation. Effective emergency planning is the key to surviving natural and man-made disasters. Risk analysis and the formulation of a comprehensive plan, followed by a vigorous and continuing testing program, are essential elements to surviving an emergency. Topics to be covered within this course include threat assessment, risk analysis, formulating the plan, staffing the Emergency Operations Centre (EOC), coordinating with supporting agencies, continuing liaison activities, managing an actual incident, and conducting an effective follow-up analysis.

### **BHEM 2107 Incident Command**

This course deals with the specialized issues associated with emergency medical services—those issues that are not commonplace or part of everyday procedure. Topics include emergency medical services in mass casualty, biological, chemical and radiological incidents. The study of complex fire situations, including analysis of pre-fire planning, establishing and managing the command post, and effective management of complex fire ground operations. Emphasizes the study of multiple company response and the efficient utilization of available and prospective resources in handling major fires. The course focuses on the problems posed for fire department management from large scale incidents or natural disasters, including the particular problems associated with multiple-company response and involvement of multiple jurisdictions.

### **BHEM 2108 Disaster and humanitarian Crisis**

Disaster and humanitarian responses are crucial elements in public health practices. Humanitarian relief actions often highlight the importance of mitigation, preparedness, training and multidisciplinary collaborative response within and beyond the health and medical sector. This course offers an overview of the disaster management cycle and the public health and medical implications of disaster and humanitarian crisis. It aims to show how public health principles may be applied in disaster relief and how evidence-based health related humanitarian actions can be planned, implemented and evaluated.

### **BHEM 2109 Hazardous Materials in Emergency Management**

Looks at key legislation regarding storage, handling, and transportation of hazardous materials, and reviews how the emergency management community plans, responds, and recovers when hazardous material incidents occur.

### **BHEM 2110 Environmental Health and Sanitation**

This course examines health issues, scientific understanding of causes, and possible future approaches to control of the major environmental health problems in industrialized and developing countries. Topics include how the body reacts to environmental pollutants; physical, chemical, and biological agents of environmental contamination; vectors for dissemination (air, water, soil); solid and hazardous waste; susceptible populations; biomarkers and risk analysis; the scientific basis for policy decisions; and emerging global environmental health problems.

**BHEM 2111 Disaster and Risk Management**

This course opens up students to the space of vulnerability in the context of disaster management. It is mainly an examination of the nature, scope, context, concepts, and dynamics of vulnerability and risk. This will be undertaken through looking at factors contributing to vulnerability due to structural forces created by economic globalization and their impact on local-level vulnerability. The course puts people at the centre of the examination focusing on the socio-economic and political dimensions as well as health aspects of vulnerability and disasters rather than hazards per se. The course also touches on issues of climate change and forced migration, and overall vulnerability reduction and resilience building. Students will be exposed to skills of identifying risks and disaster-prone areas.

**BHEM 2212 Introduction to Meteorology (lab)**

Introduction to Meteorology is a natural science course, taught within the School of Social Science, from the perspective of Geography, Environment, and Spatial Sciences. The course explores the natural processes and phenomena that take place in the Earth's atmosphere and how everyday changes in the atmosphere affect people and human societies, as well as the interactions between these two spheres. Furthermore, this course is designed to acquaint the student with the fundamentals of meteorology, energy balance, adiabatic processes, cyclogenesis, and severe weather.

**BHEM 2213 Humanitarian Aid**

Humanitarian actions have changed the world over time and include the elimination of slavery, moves to abolish torture as a routine practice, improve treatment of people with a mental illness, prison reform, and other social developments. The importance of these changes cannot be underestimated. This course will be focusing on the evolution of humanitarianism on an international level-- the development of what is known today as "humanitarian action" being those people and agencies that provide assistance to those affected by natural and human-induced disasters and conflict. Students will learn how to address the main challenges of communication in humanitarian settings and how to implement a communication plan in the midst of humanitarian action.

**BHEM 2214 Public Relations and Safety**

A review of the skills needed to effectively deal with the public and media before, during, and after an emergency event. Topics will include: role and responsibilities of the Public Information Officer, understanding the roles and responsibilities of the media, conducting awareness campaigns, writing news releases, public speaking, granting interviews, media management, and dealing with high-profile incidents. An examination of the relationship between public safety agencies and the larger community, with particular emphasis on administrative and policy dimensions; the role of public safety agencies, the community's involvement in establishing that role, police-community relations programs, relationships with the media, and professionalization and accreditation movements in public safety agencies are addressed. The course focuses on the relationship between the public safety agency—police, court, corrections, fire—and the larger community. An historical framework of the public safety role and an ecological model of the environment of public safety agencies is provided as background. The course then focuses on the development of community-oriented programs in public safety agencies, including attention to neighbourhood service units, citizen advisory councils, complaint handling procedures, and the role of an agency overseer. A significant element of the course addresses relations with the media, since the media become one of the primary intermediaries between the public safety agency and the community.



### **BHEM 2215 Humanitarian Interventions in Emergencies**

This course is designed to expose students to various humanitarian interventions deployed when disaster strike and analyse the motives under which these interventions are given and also look at the impact of such efforts to intended recipients. Effective management of supplies in a responsibly accountable manner will be part of the course underpinning good ethical values and humanitarian principles.

### **BHEM 3116 Human Rights and International humanitarian law**

This topic guide provides an overview of the international legal frameworks for humanitarian action that provide guidance on delivering assistance in a variety of challenging contexts. international human rights law, international refugee law and international criminal law, which can operate at the same time as IHL; international disaster response laws, rules and principles, for organisations operating in disaster areas not subject to IHL; challenges in relation to non-state actors; the responsibility to protect; and compliance and enforcement challenges. This course introduces the basics of international humanitarian law (IHL) for non-specialised audiences; what IHL is; its relationship with human rights law; its sources; when it applies; the basic principles; protected persons and objects; means and methods of warfare; and international crimes.

### **BHEM 3117 Technology & Emergency Management**

The role of technology in the support of emergency planning, response, recovery and mitigation efforts. Application of current and emerging web based technologies. Topics include: GIS, RSS, GPS, EWS, Medias, simulation and modelling software, decision support and the application of current and emerging web based technologies. Emergencies and disasters are extreme events that cause significant disruption. They require immediate response as well as coordinated application of resources, facilities, and efforts beyond those regularly available to handle routine problems. They rise from both natural as well as man-made events. When does a situation become a crisis invoking extraordinary resources and management priorities – distinct from “business as usual?” The application of technology in emergency management will be explored in this class. Examples of current and emerging technology applications will be illustrated along with an explanation of critical issues that are a part of the technology application.

### **BHEM 3118 Public Health in Humanitarian Crises**

This course introduces a set of public health problems experienced by people affected by natural disasters and/or conflict. It discusses the many changes in people's lives when they are uprooted by a disaster, ranging from changes in disease patterns, access to health care, livelihoods, shelter, sanitary conditions, nutritional status, etc. We will explore what humanitarian interventions could look like if we want to mitigate the effects of disasters. The course content is a mix of theoretical knowledge and many practical examples from recent disasters. This course is unique because it contains so many practical ‘real-life’ examples.

### **BHEM 3119 Refugee Protection and forced Migration**

An understanding of the complex and varied nature of forced migration and refugeehood; of their centrality to global, regional and national processes of political, social and economic change; and of the needs and aspirations of forcibly displaced people themselves

### **BHEM 3120 Emergency Response to Terrorism**

The history, methods, and philosophy of terrorism are reviewed. Emphasis is placed on extremism as a foundation for terrorist behaviour, types of terrorism, and how governments and law enforcement agencies respond to terrorism. Case studies of terrorist activities and implications for emergency response are highlighted.

### **BHEM 3221 Disaster Mental Health**

Students in this course will analyze psychosocial challenges faced by the disaster victims, the caregivers in the disaster situation, the community members who might not have been affected by the disaster directly. Using an interdisciplinary approach to study mental health, mental illness, and substance use, students will examine a variety of perspectives and contextual factors used to explore issues and concepts of mental health. Distribution patterns, risk factors, organization of health systems, and societal efforts toward prevention and treatment will also be reviewed. A focus will be placed on understanding the social determinants of health and exploring issues from a population and public health perspective.

### **BHEM 3222 Gender and Humanitarian Action**

This course introduces students to the relevance of gender to humanitarian programming. The course identifies why addressing gender matters in humanitarian response and will make students familiar with key frameworks underpinning gender mainstreaming approaches. Acquire deeper knowledge on tools used to ensure programming is gender responsive, such as gender analysis and the basic principles of ensuring equal participation of males and females. It will enable students to take a close look at specific cluster responses through the use of case studies. Another session will be dedicated to assessing responses to gender-based violence in humanitarian action. This course introduces students to the growing body of literature on sex, gender and gender relations in the context of natural, technological or human-induced hazards and disasters. It will analyze gender differences and inequalities through the disaster cycle and gender as a cross-cutting theme in other patterns of disaster vulnerability and resilience.

### **BHEM 3223 Introduction to Global Health**

This course will provide you with an overview of the most important health challenges facing the world today. You will gain insight into how challenges have changed over time, we will discuss the likely determinants of such changes and examine future projections. Successful international strategies and programs promoting human health will be highlighted and global health governance structures will be mapped and the role of the key actors explored. An Introduction to Global Health, is to describe and analyze variation in health between and within countries. This will provide an understanding of causes of the variation. The course will include measurements and determinants of health. Further, the course offers a public health perspective of the global burden of diseases.

### **BHEM 3224 Port Health**

This unit is designed to enable the student to acquire skills, knowledge and attitudes on port health. Describe the public health procedures for clearing the incoming international travellers and vessels. Explain the sanitary requirement in ports and for food handling and storage on board vessels. Explain port health activities. Explain the purpose, scope and implementation of International Health Regulations (I.H.R.)

### **BHEM 3225 Workshop in Emergency & Disaster Management**

The Emergency & Disaster Preparedness provides students with a broad range of administrative skills and knowledge that are ideally suited to meet the critical needs of emergency management administrators. The program will help participants in enhancing their skills and knowledge in disaster and emergency management. The program exposes students to advanced operating characteristics, response and recovery functions, and resource management of an integrated emergency management system.

### **BHEM 3226 Current Trends in Emergency Management**

This course is designed to provide students with the knowledge of emergency management and the philosophy of emergency planning for community, business and industry. Students will develop a management perspective on issues, concerns, and constraints effective to emergencies that responders must think about today.

### **BHEM 3227 Hunger & Food Security**

This course provides students with an introduction to the politics, economics, and policies associated with the global crises of hunger, malnutrition (under and over-nutrition), and food security. The course will provide an overview of some of the core dimensions of global hunger and food security policy issues, including debates over food aid, fair trade, etc. and the impact of the inter-related financial, food, and other crises. It aims to provide students with the basic concepts and analytical tools required to reflect critically on international development issues in the world today and the how global poverty, food insecurity and hunger might be alleviated.

## **COURSE DESCRIPTION FOR PEACE AND CONFLICT MANAGEMENT**

### **BPCM 1101 Introduction to Peace and Conflict Management**

This course introduces the Peace and Conflict Studies track of the World Politics major. The course lays a theoretical foundation for analysing violent conflict and its dynamics. Students will be trained in identifying conflict contexts and actors, and in critically examining patterns of conflict emergence and escalation. The course will examine various causes of violent conflict and how they are interlinked. It will also introduce the changing nature of contemporary conflicts and of the international responses to them, including attempts to keep and build peace

### **BPCM 1102 Theories in Peace and Conflict Management**

It introduces you to the basic concepts, perspectives and theories of conflict management. It is designed to provide a comprehensive understanding of the major perspectives and theories relating to the management of conflicts at various stages. The students will explore the processes, and dimensions of conflict management. Important concepts in these processes discussed include: Third party intervention, mediation, negotiation, arbitration and African traditional conflict management forms. It also explores several issues, such as ethnicity, culture, communication, and public policy making and their implications for conflict management. Other issues include disarmament and arms control, preventive and multi-track diplomacy.

### **BPCM 1103 Community Psychology**

This course is designed as an introduction to the topic of Community Psychology. Students will learn about the history of this young field, its scientific roots, and the social movements that propelled its founding. The course will further expose students to the theoretical foundations, CP's approach to research, basic concepts of the field, and perspectives on community and social change.

### **BPCM 1204 Religion and Conflict Management**

Even a cursory glance at world affairs will show that religion and politics is at the heart of today's ongoing struggle between nations and ideology. Religion may be a motivator and catalyst in rallying popular support for waging war, and in fact may play a significant role in nurturing communal strife among various faith groups in their struggle to achieve governmental control. This course is designed to acquaint students with the

analytical study of religion, politics and conflict on the world stage. By design, the course is interdisciplinary, covering areas in religion (theology/philosophy), sociology (ethno-religious & identity conflicts), ethics and politics. Students will have an opportunity to focus on one or more of these areas for their semester paper. This course will help students comprehend the global resurgence of religion in intra-state and international affairs, and will focus on specific areas in the world where religion is the primary issue.

### **BPCM 1205 Environmental Conflict**

This course examines the role of natural resources in conflict and conflict resolution. It analyzes multiple relationships between conflict and the environment drawing on conflict theory, environmental security and scientific aspects of global environmental change. It analyzes intervention strategies in environmental conflicts. Topics include: resource wealth and resource scarcity as sources of conflict; role of environment in the conflict cycle and international security; impacts of natural disasters on conflict; climate change and conflict; business in fragile environments; environmental impacts of war; and, integrating environment concerns in conflict prevention, peacemaking and peacebuilding. Students participate in negotiation trainings and explore cases from different parts of the world.

### **BPCM 1206 Models of Peace Building and Peace Keeping**

This course is designed to give students a better understanding of the peacekeeping role of the United Nations. The first parts of the course will discuss the institutional mechanism of the UN for peacekeeping operations, the changing nature of peacekeeping, the legal and ethical issues involved in peacekeeping and humanitarian intervention, and a historical overview of the UN peacekeeping function during the Cold War. Then the course will provide brief case studies of the UN humanitarian interventions and peacekeeping/peace-building operations in the last decade of the 20th century and the first decade of the new millennium in Africa, the Balkans and Cambodia. The United Nations peace efforts in East Timor, Afghanistan and Iraq will be discussed in some detail. East Timor, where the UN assumed the sovereignty, was an unprecedented operation. Afghanistan presents an especially interesting case. The UN has been involved in peacemaking, peacekeeping and peace-building in Afghanistan since the early 1980s; and the UN mission in Afghanistan enjoys overwhelming international support. The UN role in Iraq, from the unprecedented Security Council resolutions in the first Gulf War to the awkward relations with the U.S. in the second, also deserves special attention. Towards the end of the course, we will examine the role of the regional organisations in peacekeeping and the new experiment in “hybrid” peacekeeping in Darfur. Lessons learned from Afghanistan, East Timor and other UN peacekeeping operations will also be discussed.

### **BPCM 2107 International Humanitarian Law**

The course addresses international humanitarian law as part of general international law. It introduces the student to the history and codification of IHL, from the 16th century until today. The methodology is explained by highlighting the difference between *ius ad bellum* (the legitimacy of armed operations) and the *ius in bello* (law applicable during armed conflict).

The four Geneva conventions of 1949 and the two additional protocols of 1977 are looked upon into detail. Attention is paid to the question of law enforcement, in particular the numerous resolutions of the UN Security Council. The course illustrates IHL in some recent armed conflicts such as the NATO air campaign in Kosovo, the Libyan civil war, the Syrian civil war and looks at some new challenges of IHL regarding armed drones, cyber warfare and ‘foreign terrorist fighters’

### **BPCM 2108 Psychology of Peace and Conflict Management**

The field of conflict management is one that draws from a variety of interdisciplinary arenas and perspectives. A great deal of the foundational theory and practice within the sphere of conflict management roots in psychology, particularly, social psychology. This class will explore an empirically grounded perspective on the psychological dimensions of intra-personal, interpersonal, intra- and inter-group conflict. It is intended to provide an overview of issues related to human aggression, conflict, violence, and peace based on the premise that an understanding of these issues can contribute to a greater understanding of and ability to manage conflict between individuals, groups and societies. In this capacity, we will examine a variety of psychological concepts and how they relate to both the theory and practice of conflict management.

### **BPCM 2109 Gender and Conflict Management**

In this course we will consider gender as a powerful idea that shapes the way we see others, and others see us. Social and cultural conceptions of gender at home and around the world have led to significant disparities in economic status, education, health, legal rights and other cultural indices of success. It has been used to justify such violence as sexual and physical abuse, rape, mutilation, imprisonment and killing. We will consider many implications of the social construction of gender including ways language and stories (narratives) shape and reflect gendered attitudes, behaviors, expectations, and norms. We will examine relationships to gender at the micro, meso and macro levels including individual, interactional and structural analyses. Themes of power, performance and privilege and their implications will be woven throughout the course.

### **BPCM 2110 Conflict Mapping**

Geographic Information Systems (GIS) mapping technologies can empower conflict management practitioners by providing timely and detailed information both to international actors and to residents in conflict zones. This course will explore how GIS technologies can support early warning and prevention efforts as well as community-level security initiatives. Students will develop strategies to address the technical, analytical, institutional, and political challenges involved in designing coordinated conflict mapping systems.

### **BPCM 2111 Resettlement and Integration**

Both refugees and foreign national victims of human trafficking are eligible for refugee resettlement benefits. How can these benefits be optimized to increase individual economic empowerment and economic development for the communities in which these individuals are resettled? This course will develop innovations to facilitate the economic integration of refugees and victims of human trafficking both during and after the resettlement process. These innovations may include educational programs to help these individuals start businesses or find employment, matching services to help them find entrepreneurship or career development mentors, funding or microfinance options to help them fund new businesses, or legal assistance to secure the documents necessary to obtain employment or start a business.

### **BPCM 2112 Conflict Resolution Mechanisms**

The course focuses on the development of practical and conceptual tools for the transformation of conflict from the macro- to the micro-level. Taking the perspective that all students will be involved in both conflict and resolution of different sorts and in different capacities throughout their future professional lives, the aim of this course is to engage with these processes through various simulations, project development activities, and other activities. These situational learning exercises provide an opportunity for the

practical development of 'skills,' but more importantly, of conceptual tools relating to negotiation, mediation, conflict analysis, program development, and peace building. By creating situations and a classroom environment where students can put these concepts into use, the goal is to move from ideas to practices and back, that is, to close the dialectical loop between theory, research, and practice that is the necessary basis for reflective conflict transformation.

### **BPCM 2213 Conflict Analysis and Transformation**

This course will introduce students to the fundamental issues within the broad realm of Peace Studies; deepen student skills in critical thinking, conflict analysis, problem solving; foster international perspective to be a global citizen. Core issues: conflict analysis, non-violent action, violence prevention, warism, conflict transformation, and peacebuilding.

### **BPCM 2214 Community Mediation - Theory and Practice**

This course will provide students with an introduction to the theory, process, and skills of mediation and conflict resolution as a specialization within social work practice. The course will introduce students to the core elements of conflict, restorative justice, mediation and conflict resolution, and provide an opportunity to develop skills and methods relevant to the stages of the mediation process in a wide range of fields of social work practice. The theory and practice of mediation will be emphasized in equal measure.

### **BPCM 2215 Refugees and Humanitarian Assistance**

Millions of people around the world have been forced from their homes by interlinked factors including persecution, armed conflict, natural disasters, development projects and socio-economic deprivation. Resolving large-scale displacement represents a critical challenge for contemporary peacebuilding and development processes. This course will: (i) examine international, regional, national and local responses to the problem of forced migration; (ii) investigate the obstacles to effective protection and assistance for refugees and displaced persons; (iii) explore the challenge of resolving displacement crises, and (iv) discuss some of the moral dilemmas raised by forced migration. Students will examine various historical and contemporary cases of forced displacement, integrating diverse disciplinary approaches, including legal, political and moral analysis.

### **BPCM 2216 United Nations and Peace Keeping**

This course is intended as practical guidance for Civil Affairs Officers on the ground, as well as an orientation for people preparing for civil affairs work. It is divided into three parts and includes key concepts, current practice, lessons learned and tips. It can either be read as a whole or in individual stand-alone sections. Part I aims to familiarize users with the context of civil affairs work and UN peacekeeping, including key trends, reforms and cross-cutting themes. Part II discusses the guiding principles, skills and attitudes required for civil affairs work, and provide tips and tools on analysis, planning and managing civil affairs components in field missions. Part III focuses on the implementation of the three core civil affairs roles: cross-mission liaison, monitoring and facilitation at the local level; confidence-building, conflict management and support to the development of political space; and support to the restoration and extension of state authority. It also provides tips and good practices on implementing Quick Impact Projects (QIPs).

### **BPCM 2217 Comparative International Education for Peace**

This course introduces students to the interdisciplinary field of peace education from both theoretical and applied/practical perspectives. The course content and processes



will explore a range of conceptual, analytical, and praxis-oriented perspectives and encourage students to reflect on the possibilities and challenges of educating for peace in a world of complex and escalating conflicts and violence. It provides an overview of the history, central concepts, scholarship, and practices within the field, with a particular focus on case-studies of peace education in practice worldwide. Additional focal points include the role of culture, ethnicity, gender, intergenerational relations and religious affiliation on peace education dynamics and non-violent conflict resolution processes. Given the pedagogical focus of peace education, this course requires the active and thoughtful participation of all class members. Seminar-style discussions, lectures, guest presentations and practical exercises constitute the bulk of the course's structure, supplemented with occasional videos and guest speakers.

### **BPCM 3118 Traditional Justice and Peace Building**

Traditional justice is a rapidly growing interdisciplinary field of study focusing on processes dealing with past human rights violations and the transition to a more peaceful and more democratic state. Much of the traditional justice discourse and practice reflects international legal and human rights perspectives on the goals of traditional justice which prioritize accountability and deterrence. In this unit of study we view traditional justice as being concerned primarily with fostering sustainable peace and reconciliation in communities recovering from mass violence and violations of human rights. This will enable students to understand, compare and decide on which system is best for the community to adopt

### **BPCM 2219 Skills in Conflict Resolution**

The course aims to integrate the field of conflict in organizations and to consolidate the view that effective conflict resolution is an essential element for the effective administration and that the conflict is not 'bad', as stated in the traditional sense, but to actually use. It also aims to transmit modes, procedures and methods of conflict effective utilization.

### **BPCM 3120 Community Conflict Engagement**

This course incorporates theory with practice with an emphasis on expanded awareness of "self-in-conflict" and "self-in systems" as a means of developing a foundation for conflict engagement in complex systems. The course focuses on individual understanding of personal conflict patterns, avoidance strategies, emotional intelligence, and incorporation of strengths and values as a means of developing the capacity to effectively engage in conflict. The course also expands the content and examines conflict in complex systems and the implications for conflict specialists who work with organizations, families and other community systems. The course further appreciates that the challenge to many communities is how to deal with the massive humanitarian problems that conflicts bring about.

### **BPCM 3221 The Politics of Humanitarianism**

This course examines the politics of humanitarianism in international society. We will consider what humanitarianism means to different actors, how humanitarianism should work in principle and how the "humanitarian sector" in world politics actually functions. The course will consider state centered humanitarianism (such as military intervention) as well as transnational efforts (e.g. NGOs and IOs). Due to time constraints we will focus on assistance rather than development organizations, and on man-made rather than natural disasters. We will conclude with a consideration of whether or not current policy trends (humanitarian intervention, the war on terrorism) support or undermine humanitarian norms in international society.

### **BPCM 3222 Conflict Resolution and Peace Building**

This core course will survey various approaches to dealing with intergroup conflicts: preventing escalation, minimizing harmful consequences, ending violence, improving intergroup relations and building stable peace. We will begin by discussing processes of conflict management, which take place during an ongoing conflict. We will then discuss various routes to conflict resolution and a formal ending of the conflict. Finally, we will address processes of reconciliation and peacebuilding, intended to improve intergroup relations in post-conflict settings and prevent conflict recurrence. Throughout the course, we will survey the works of scholars from different disciplines on each of these topics in order to become familiar with different perspectives and arrive at an integrative understanding. We will also discuss real world cases in which different approaches to dealing with conflict have been implemented with varying degrees of success.

### **BPCM 3223 Post-Conflict Reconstruction and Peacebuilding**

Rwanda and Uganda are both emerging from conflict and both present excellent settings in which to examine the various measures, strategies, programs, and projects that have been put in place by Western organizations, national governments, NGOs, and communities to mitigate the impact of conflict and to rebuild, reconstruct, and revive fractured relations and displaced communities. What choices for reconciliation, reconstruction, and development have been made in Rwanda and Uganda? What theoretical underpinnings shape these choices and what are the implications of these choices for sustainable peace and development? The course provides a comparative approach to post-conflict reconciliation, resettlement, and recovery in Rwanda and Uganda. Carefully scheduled visits to NGOs, government agencies, and to communities in Rwanda and Uganda are complemented by lectures by Ugandan experts and selected reading assignments. An excursion to northern Uganda enables a comparison of post conflict transformation in the Acholi region and Rwanda. The seminar concludes with a critical focus on the prospects for sustainable peace in Rwanda and Uganda and in the Great Lakes region of East Africa.

### **BPCM 3224 Seminar In Peace and Conflict Management**

This course analyzes the roles and responsibilities of civil society, the market, and the state as agents capable of creating just and humane structures. Case studies reveal how individuals can leverage collaboration among all sectors of society to advance positive systemic change. Further description: This course explores the conceptual framework that underwrites the MPACs program and its conceptual foundation of “civil society.” This requires exploring the history, evolution, and the particularities of “civil society” in order to become adept at identifying how the term civil society is used as well as how we can help build a society that is civil through peace work in places with different histories, governance structures and conflict contexts.

## **COURSE DESCRIPTIONS FOR COMMUNITY DEVELOPMENT**

### **BACD 1101 Introduction to Community Development**

This course is designed to introduce students to community development studies and practical field research. Community development is a field science which is necessary to understand complex local situation and find the potential from a local reality. The course is divided into two parts to understand 1) theories and case studies of community development and 2) realities of community development in rural areas (Uganda) through field research. Students will conduct field study in rural areas to understand “What is development?” from local people’s point of view by participatory observation



and key informant interview with local people and governmental officers. We will focus on their life stories to achieve the question. Finally, students will record the life stories, and submit group or individual reports on their findings.

In order to develop as effective community workers, students must possess a strong theoretical and practical foundation related to their discipline. Beginning from an understanding of current community experiences and trends, students will learn how community development practices and principles can enable them to respond to contemporary needs.

### **BACD 1102 Rural Sociology**

This course discusses the basic sociological theories, concepts, principles and dynamics of rural societies in relation to agricultural and rural development with the main aim to enable them to effectively work with communities in solving identified problems for livelihood improvement in Africa.

### **BACD 1203 Community Health and Development**

This course will enable a student understand and pay attention to the major discourses, concepts and policies concerning health and health care in developing countries and mutual causal relations between ill-health and poverty. This course will approach health and ill-health from social science and socio-epidemiological perspective. Key global health issues including HIV/AIDS, other major communicable diseases, sexual and reproductive health, rights, and female genital mutilation and refugees will be discussed.

### **BACD 1204 Community Leadership and Governance**

This course will help students understand leadership concepts and theories. In addition, the course will in detail examine the principles of leadership and governance and how it impacts on rural development.

### **BACD 1205 Micro - Finance and Community Development**

This course is designed to provide students with an in depth understanding of the role of microfinance in community development, fundamentals of microfinance as well as current challenges and debates in the world of microfinance. The course will further help students learn about sustainability of microfinance and microfinance practices, activities, management and evaluation.

### **BACD 2106 Estate Administration and Management**

The course will provide students with knowledge and skills in property ownership, estate planning, will drafting and execution, and trusts. It also examines the administration of small and regular estates through the probate process

### **BACD 2107 Poverty and Social Inequality**

This course attempts to approach development from the sociological perspective with emphasis on key sociological concepts and sociological definitions of development. Concepts of poverty; food security, inequality, salient features and causes of under development and exploitative practices that lead to industrialization and accompanying social changes are among the issues discussed. Gender as a key concept in development is also explored.

### **BACD 2208 Community Participation of Development Programs**

This course introduces students to fundamentals of participatory approaches in development and innovation processes. It deals with the concept, the types and, levels of participation. It further explores the contextual factors and conditions that can influence

participatory initiatives as well as, the potential and limitations of participatory processes. It also focuses at equipping students with skills in: facilitation, application of various participatory methodologies and or tools and, assessing the practice of participation in development.

#### **BACD 2209 Functional Adult Literacy**

This is a practical course that will provide students' with knowledge and skills to plan, organize, implement and evaluate Functional Adult Literacy (FAL) programs.

#### **BACD 3110 Community Development Theory and Practice**

In this course the grass root approach to development and an analysis of community organization models and techniques towards development will be examined. It focuses on community organization and leadership and analyzing forces outside the community that are affecting decision making at the local level. The course will further equip a student with techniques and strategies for participation in community development.

#### **BACD 3111 Indigenous Knowledge Systems**

This course intends to introduce students to the importance of indigenous knowledge in life. It will create awareness; provide information, knowledge and skills for good standards of living and income generation. The course is divided into three sectors which include among others, importance of environment to indigenous people, African identity to development and how Africans use indigenous knowledge in their own development.

#### **BACD 3112 Gender and Development**

This course is structured in a way to equip students with the requisite knowledge and skills in explaining gender issues in rural development. The course will analyze fundamental gender issues, theories, concepts and their implications on rural development.

#### **BACD 3113 Agriculture and Rural Development**

The course provides a comprehensive discussion of the principle of agriculture, approaches to agriculture modernization, agriculture extension and also discusses the role of agriculture in development of communities. The subject further provides an overview of the policies and strategies undertaken by the government to bring about agriculture and rural development

#### **BACD 3214 Sustainable Rural and Urban Development**

This course identifies the various resources present in our communities, examines their role in rural development and also under covers the existing challenges in the utilization of these resources. The subject further discusses the concepts of ecosystem and biodiversity conservation as well as providing a comprehensive overview on the national and international polices on sustainable natural resource use. The course also provides students with an overview on Environmental Impact Assessment for rural development projects.

#### **BACD 3215 Group Dynamics and Voluntary Efforts**

This course is designed to provide a powerful combination of volunteer management, theory and practical application to group dynamics, it will help students to increase their effectiveness, advance their careers and achieve personal growth, by examining various aspects of group dynamics, stages of group development, role of a leader in a group and recognition of various types of group process. Students who are new to the volunteer sector, aiming to enter the sector or who require the practical or theoretical background will stand to gain the most from this course. Practical experience through a field placement will provide a variety of contacts and resources and create a clear support network that extends beyond the course experience

### **BACD 3216 Citizen Empowerment and Community Advocacy**

This course examines methods of organizing people for social and political advocacy on their own behalf of others to bring about change in communities. The student will be able to understand social and political issues at the local community level, gain awareness of issues related to race, gender, ethnicity, social class, sexual orientation and other dimensions associated with privilege and discrimination. The student further will be able to apply appropriate strategies and tactics to bring about change, demonstrate skills in assessment, leadership, planning and conducting advocacy campaigns as well as evaluating results associated with organizing for social and political action.

## **COURSE DESCRIPTION FOR JOURNALISM AND MASS COMMUNICATION**

### **BJMC 1101 Introduction to broadcasting**

Introduction to Broadcasting is a course designed to foster positive learning experiences while teaching the basic production techniques both behind and in front of the camera. The course is designed to involve students in the technological environment of both live and recorded video productions. It is a hand on course that involves high energy and active participation of the students working under time constraints of production deadlines for news packages and videos, and aid in production of announcements. Students will learn: proper camera framing, video editing, the main elements of news packages and how to put one together, shot sequences, on air performance, how to effectively produce a school broadcast, how to operate the Tricaster and cameras, ingesting graphics into the Tricaster, how to produce a show using a virtual set, and operating Canon Rebel t3is. The class is designed to provide the necessary knowledge to run the school's equipment and produce both independent productions and the daily announcements that are aired over the closed circuit TV system of the school and Promethean boards. The class will provide practical knowledge for the student as well as problem solving skills, teamwork, and showcase creativity. This class serves as the entry course to the broadcasting pathway. Students will be expected to be active participants in all aspects of the productions and will be responsible for producing and keeping on record a portfolio of all their work for each segment of the school year. Portfolios will include written assignments, video or audio recordings of independent productions, video or audio recordings of closed circuit broadcasts, and any aspect of a production that they are involved with. Portfolios will be checked at the end of every 9 weeks to make sure they are current and accurately reflect the volume and quality of the student's work. Students are required to obtain a storage device and head phones

### **BJMC 1102 Introduction to Mass communication**

This course is an examination of the effect and impact of mass media on contemporary life and society. The course covers both the historical evolution of media as well as contemporary developments and issues. Areas of coverage include, newspapers and journalism, magazine and book publishing, radio and television broadcasting, motion pictures, music recording, Internet and social media, cable and satellite communication, advertising and public relations; media law and ethics. Course work will include weekly chapter readings from the course text, quizzes, and regular participation in on-line discussion forums which will require writing and reflection

### **BJMC 1103 Writing for media**

This writing and survey course helps students focus their skills by exploring different forms of writing online and in print. We will develop strong basic reporting and writing skills. Using different story forms – including but not limited to journalistic news –

students will learn how to write a diverse set of stories and embrace the freedom and responsibilities of web journalism. Students will learn Associated Press style and various journalistic reporting and writing techniques. They will learn the basics of writing press releases and other journalistic and communication forms. You will be critiqued by the instructor. Expect practical and historical lessons.

### **BJCM 1207 Radio and TV Journalism**

Introduction to basic script formats, terminology, and writing techniques, including the writing of commercials, public service announcements, promotions, news, documentary, and fictional materials.

### **BJMC 1208 Communication Skills**

This course is an introductory communication course. It is designed to expose students to the theories, skills, and strategies needed to become effective communicators in academic and professional settings. It explains the major theories of human communication and persuasion in interpersonal, small group, and public communication contexts. The course also focuses on effective communication skills and strategies for writing reports and CV's and for preparing and delivering effective presentations.

### **BJMC 1206 Media, Culture and Society**

Students explore the impact of media on culture and social structure through the close examination of cultural products including books, television shows, music, and advertising. Using a wide range of theoretical constructions, students learn to analyze the social meanings of cultural objects.

### **BJMC 2107 Theories of media and communication**

This course provides an overview of theories to describe and explain media communication. The course will look at several perspectives on media and how they are translated into contemporary research efforts. Specifically, the course deals with the communication field from the perspectives of content and language, media and society, audiences and effects, and media organizations. Students will be encouraged to participate in discussions where key theories will be analyzed and possible applications discussed.

### **BJMC 2108 Media history**

A survey of the four great revolutions in human communication: orality (speech), literacy (writing & reading), typography (print & mass literacy), & the electronic media (telegraph, telephone, photography, & film, radio & television, computers, & communication satellites). Different forms of communication have emerged within and against different social, economic, perceptual, and semiotic conditions that are specific to different historical moments. Only by thinking carefully about transitions and interactions among media and culture in the past can we hope to understand the pace, direction, and character of changes today. In addition, we examine how latter forms of communication deeply affect the former through combination and overlap.

### **BJMC 2109 Script Writing**

This course introduces students by immersing them with the fundamentals of writing the short script from concept to complete and revised first draft. Topics include: concepts, formatting, story structure, character development, conflict, visible outer motivation, dramatic action, dialogue, scene and sequence, and writing for emotional impact, among other things. You will develop your skills as a screenwriting professional from daily writing to developing new script ideas.

### **BJMC 2110 Introduction to Public Relations and Practice**

This course provides students with a detailed introduction to public relations, including its historical origins, and its distinctions from advertising. Students will study theories of the public and public relations theory, while learning the many roles of the public relations practitioner and of the public relations agency. Through case studies students will examine the legal and ethical concerns of P.R., while studying the press release, newsletter, and personal appearance

### **BJMC 2111 Advertising and Copy Layout**

This class is for the student interested in gaining a working knowledge of the creative process associated within the advertising profession. This course will provide the student with introductory skills needed for art direction, design and the tools used in production in advertising. Projects will include development and execution of concept based advertisement, creative briefs, headlines (copywriting) typography, color, layout, design, campaigns: commercial and public service, digital branding, social media and “activation,” logos, and promotional events. The role of the creative team (Art Director and Copywriter) will be emphasized but the main focus of the class will be on the role of the Art Director/Designer in the visual and conceptual development of advertising campaigns through various mediums and media. The role of the advertising agency and design studio in developing, maintaining or shifting a client's brand image will also be explored. Strategic Creative Briefs will be explained and required at the beginning of each project.

### **BJMC 2112 Radio and TV Production**

This course offers basic function of radio and television is to provide the students the necessary knowledge on the systems. The course aims to cover the theoretical and practical knowledge, skills and competences in the subject of video and Audio Broadcasting that enable them enable them to organization for radio and television broadcasting systems, aspects related to the transmission, reception and playback of analog signals, the digitization of video and audio, the principles, compression standards and coding of digital video and audio signals (MPEG), the principles and standards transmission of digital television signals (DVB) and playback of digital signals. Emphasis is given to digital broadcasting systems

### **BJMC 2113 News Writing and Specialized Reporting**

This course is designed to train you to become skilled in writing publishable news copy within given deadlines. The course examines the basic definitions of news, structure of news and journalistic formats of news presentation as well as the methods of producing them. The course also examines the various types of leads, the inverted pyramid, writing transitions and conclusions. For practical exposure and experience in news gathering and reporting, you are expected to turn in news stories under given deadlines. Model news stories will also be provided for studying and imitation. In this course, you will be encouraged to submit news stories and articles ready for media publication.

### **BJMC 2214 Graphics Design 1**

This graphic design class is a hands-on workshop and includes exercises in design concepts, along with principles to help build confidence and awareness of guidelines and theories, and how they impact layout, type and color. In this course of graphic design course, you will discover how to apply design by structuring a visual hierarchy using space and type. No previous design experience is necessary, and this course serves as a useful foundation for individuals working across a range of fields.

### **BJMC 2215 Media Law and Ethics**

Students will learn about their legal rights and obligations. The course will educate students on how to publish information without violating defamation and invasion of privacy, how to gather information to avoid legal and/or ethical trouble and how to deal with subpoenas. We will also examine how to navigate the digital space of contemporary journalism and focusing on Fair Use, and other laws, policies and best practices in the use of photographs, trademarks, film clips and other copyrighted works. This is a rapidly changing and complex legal environment for journalists, publicists and other creative entrepreneurs. This is not a course to prepare you to practice law but how to see the fuzzy and the bright lines and when to call on legal help. Our goal is to keep you and your employer out of trouble.

In addition, in an ever evolving fast and competitive digital space, the course also will explore the temptations of sloppy and unethical practices, and the consequences of giving into those temptations. We will explore the impact of the internet on the practice of journalism and other creative fields and how new communications technologies are regulated today. Overall, this course will aim to give students the essential legal framework of their rights and responsibilities as journalists. Come prepared to think, discuss and participate.

### **BJMC 2216 Interactive Multimedia**

The increasing complexity and specialization of media has created a need for new talent that understands and can use sophisticated online technologies. On the other side, media organizations rarely provide time or money for existing employees to learn new skills. This course will enable students to become fearless learners of new technologies in today's knowledge economy, and teach them to be comfortable working in contemporary multimedia organizations. This course will introduce students to the terminology and tools used in multimedia environments, and will allow students to actively use the new skills in a series of discussions and labs

### **BJMC 2217 Photojournalism and Videography**

This course gives students the opportunity to explore contemporary artistic practices that make use of photography, video and digital imaging. These fields of artistic practice resonate with students' experience and understanding of the world and are highly relevant to contemporary ways of interpreting the world. The course offers opportunities for the student to investigate one or more of these fields and to develop understanding and skills that contribute to an informed critical practice. Central to this is the development of creative action, reflection and the exercise of judgement. Photography, Video and Digital Imaging also offers opportunities for students to investigate the pervasiveness of these fields in the contemporary world in the visual arts and design, television, film, video, the mass media and multimedia, and to investigate the ways in which these fields of artistic practice have adapted and evolved over the twentieth century.

### **BJMC 3118 Newspaper Editing, Design and Layout**

The course introduces students to the use of computer technology for word processing, graphics and pagination, including design as a component of newspaper readability and marketability. Elements of publication design with special emphasis to typography, graphics, and layout is also covered. It also shoes the principle and practice of editing and evaluating newsworthiness, writing together and captured and newsletter layout and design practiced electronic editing, and newspaper production process.

### **BJMC 3120 Graphic Design**

This course will incorporate advanced graphic design techniques and the production capabilities of Desktop Publishing. This course will reinforce the full range of design and



production methods from publication layout to computer generated prepress files. A variety of publication problems will be offered to challenge the student's understanding of digital design and production. Final Cut and the Adobe Creative Suite will be the primary design and production tools.

### **BJMC 3119 Interactive Multimedia, Animation and Production**

This course will enable students acquire the process and language of digital mass media design. Unlike design for print, design for the internet is an immediate and interactive form of communication. It is also rapidly evolving. The goal of this class is to give the students a strong overview in the basics of design and digital production for internet-based media technologies. The students will learn how to use software, such as Adobe Dreamweaver – using both HTML and CSS – and implementing software such as Adobe Photoshop and Illustrator, the primary goal will be to effectively solve communication problems in as unique and effective manner as possible.

### **BJMC 3120 Media and Human rights**

This course will examine the role of the media in promoting human rights. Central to the study is an effort to find out why the media decide to include human rights coverage as part of their programmes as well as the portrayal of human rights elements in such programmes.

### **BJMC 3121 Social Media Marketing**

Social media has moved from a pastime to a professional endeavor. This course introduces the major social media platforms and theoretical constructs and examines how companies use social media for marketing, analytics and customer service. This course will give future media and communications professional's practical experience needed to successfully utilize social media for strategic endeavors

### **BJMC 3224 Media Professional Project**

This course brings out students to work in teams to create, produce short video and/or digital media products for practical utilization in community (private sector and government). Using these productions as foundations, this unit examines the practices and theories of media business, financing and entrepreneurship through an analysis of the roles and strategies of a media producer. Students learn effective project management skills directed towards developing theoretical and applied knowledge in preparing a project budget, production planning and scheduling, risk assessments, insurance, legal, ethical and copyright issues, and strategic marketing and distribution, and leadership skills.

### **BJMC 3222 Analytical and Opinion Writing**

The course seeks to equip students with the skills of analysis so they can interpret issues in the news and be able to write about them through commentary, editorials, and other forms of expressive writing from an informed perspective and in compelling style. The course will take students practically through the elements of effective analytical and opinion writing, tools and techniques of analysis, types of opinion, creating impact, and dealing with the story behind the story

### **BJMC 3223 Public Affairs Reporting**

This course enables students appreciate key public issues and to develop journalistic strategies to report and package them appropriately for inclusion on the media agenda. It equips students with techniques and competencies to identify, analyze, interpret, and report constructively and comprehensively about the significant public issues of the day.

Emphasis is on coverage of political, cultural, social, and economic issues that have a measurable impact on public life and policy e.g. elections, the work of governments and public institutions, peace and conflict, crime, justice, and law and order. The course engages students in deconstructing and making sense of such concepts as the 'public', 'public sphere', 'public space', 'public interest', and 'public communication'. Students will be required to produce major reporting projects on selected public affairs issues in the media of their preference (print, electronic/digital, mainstream, and alternative).

### **BJMC 3224 Media Management**

This course explores the essentials of media management by looking at its economic, social, cultural, and policy contexts. It examines the structure of media organizations and applies key management concepts and theories to their operations. The course looks at the practical issues involved in managing a media organization: leadership, human resources, media economics, financial planning, markets and audiences, advertising, media content, circulation and distribution, and media technology. The course addresses the special characteristics of media companies. This is critical to appreciating the management function in media organizations in terms of: ownership; personnel management; media audience research and analysis; editorial management; media law and ethics; and present-day media management challenges such as government policy, convergence, digitalization, consolidation, and internationalization vis-à-vis localization.

### **BJMC 3225 Public Relation Strategies**

Public Relations Strategies introduces students to the strategic planning process involved in putting together and coordinating organizational public relations efforts. In this course, students will learn what is involved in developing, implementing and evaluating public relations strategies. The course provides insights on understanding an organization's internal and external environment; as well as identifying and addressing public relations situations that emerge in these environments. Students will learn how to develop objectives, and design strategies and select tactics that can better serve the organization's goals. Additionally, students will learn from current public relations strategies, by analyzing and discussing good and bad practices. This course also focuses on the use of social media and other new media channels in strategic public relations, examining when and how they can be employed to better serve the organization communication and relationship building needs

### **BJMC 3226 Public Information Programs**

You will be reporting, writing, and producing stories from around campus and around the area. These will appear on air, in print, and on the Web. Each week, you'll pitch stories and be assigned a duty within the team. This will be a collaborative class, but you will individually get several bylines throughout the semester.

### **BJMC 3227 Newspaper and Magazine Production**

This course will introduce students to the art and technique of typography and its application in the layout and production of a newspaper and magazine up to their printing stage. The students will develop their knowledge and potential so they can process texts and images on the computer to produce graphics for a newspaper or magazine, depending on their targeted reading public.

### **BJMC 3228 Film and Documentary production**

The course will provide students with skills and different approaches to "reading" documentary films that deal with social issues. After a brief theoretical introduction to documentary film theory, we will discuss and analyze selected documentaries. The



course will also focus on practical filmmaking training with the aim of introducing students to how to visually express social issues. Elements of the training will include interview techniques, observation exercises, learning story construction and narrative structure, synopsis, treatment and script writing, camera using, sound recording, log writing, and film editing.

## **COURSE DESCRIPTION FOR LANGAUGES**

### **BJML 1101 Luganda Orthography (KAYIGAMPANDIIKA)**

Essomo lino lirimu nnyo okwegezesaamu. Lya mugaso eri omuyizi mu ngeri nti lya kumuyambako okumanya ebintu eby'enjawulo ebifiibwako mu kubaga empandiika yolulimi lwonna wamu, okumanya emitendera egy'enjawulo abaabaga empandiika y'Oluganda entongole gye baayitamu okusobola okussaawo empandiika ennujnamu wamu nokuyambako omuyizi okukaza empandiika ye ey'Oluganda.

### **BJML 2103 Translation and Interpretation of Luganda**

Essomo lino litegekeddwa okuwa abayizi amagezi agasookerwako mu kuvvuunula nokutaputa. Essomo lino lya kwesigama ku mugogo gw'ennimi gumu; Luganda English. Essomo lino lirimu okwegezaamu kungi ddala era ng'abayizi baja kweyambisa ebiwandiiko ebigwa mu bisaawe eby'enjawulo babivvuunule okubizza mu lulimi olunaaba lulondeddwa.

## DEPARTMENT OF PUBLIC ADMINISTRATION AND MANAGEMENT

**Head of Department:** Joshua Busuulwa R. – MA, B.A Development Studies, Bugema

### **Vision**

To produce well qualified individuals of high integrity for effective and faithful service in the public and private sectors in Uganda and beyond.

### **Mission**

To empower students with knowledge and skills needed for effective public and private sector management in Uganda and beyond.

### **Programs Offered**

- Bachelor of Public Administration and Management (BPAM)
- Diploma in Public Administration (DPAM)
- Certificate in Public Administration (CPAM)

### **Objectives**

The key objectives of the Course are:

- To enable students, attain observable ability, scholarship and research skills in the area of public administration and management
- To train well rounded and effective Public Administration Managers who are able to understand and respond to the demands of community in the changing administrative environment.
- To understand the political, legal, ethical and social context of administration with respect to pertinent process and theories
- To achieve proficiency in understanding and developing positive organizational behavior
- To develop in students, the ability to apply appropriate methodologies to solve important problems and issues. These methods include quantitative and qualitative approaches to policy analysis and to program evaluation
- To develop critical and analytical skills which enable students to understand policy and program formulation, implementation, evaluation and problem solving
- To prepare students for effective service in public and private sector.
- To provide opportunities for students to develop and test empirical hypothesis, use statistical research methods and communicate results using multi-media presentation in capstone courses and internship.
- To acquaint students with the skills to enable them to act ethically and effectively in public administration and management.

## BACHELOR OF PUBLIC ADMINISTRATION AND MANAGEMENT

<b>Course Category</b>	<b>Credits</b>
Major Concentration	80
Cognates	16
General Education	21
Research	06
Industrial Attachment	06
<b>Total</b>	<b>129</b>

<b>Major Concentration</b>							<b>80</b>
<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BPAM 1101	Intro. to Public Administration	30	30	0	45	4	
BPAM 1102	Introduction to political Science	30	30	0	45	3	
BPAM 1103	Introduction to Political Philosophy	45	30	0	60	4	
BPAM 1204	Governance and Politics in Africa	45	30	0	60	4	
BPAM 2105	Public & Private Sector Management	45	30	0	60	4	
BPAM 2106	Politics in Developing Countries	45	30	0	60	4	
BPAM 2107	Communication Skills & Public Relations	30	0	30	45	3	
BPAM 2108	CSO and Development	30	30	0	45	3	
BPAM 2209	Policy Administration and Mgt	45	30	0	60	4	
BPAM 2210	Comparative Public Administration	45	30	0	60	4	
BPAM 2211	Urban Planning and Development	30	30	0	45	3	
BPAM 2212	Organizational Behavior	30	30	0	45	3	
BPAM 3113	Administrative Law	45	0	30	60	4	
BPAM 3114	Local Gov't & Decentralization	30	0	30	45	3	
BPAM 3115	Public Finance	30	30	0	45	3	
BPAM 3116	Democracy and Human Rights	30	30	0	45	3	
BPAM 3117	Ethics in Public Administration	30	30	0	45	3	
BPAM 3218	Development Administration	45	30	0	60	4	
BPAM 3219	Political Economy	45	30	0	60	4	
BPAM 3220	Strategic Management	45	30	0	60	4	
BPAM 3221	International Relations	30	30	0	45	3	
BPAM 3222	Peace and Conflict Studies	30	30	0	45	3	
BPAM 3223	Public Procurement & Logistics Mgt	30	0	30	45	3	
<b>Total</b>						<b>80</b>	

<b>Cognate</b>							<b>13</b>
<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>	
BHRM 2209	Human Resource Management	30	30	00	45	3	
BADS 1204	Project Planning and Management	30	00	30	45	3	
BADS 2212	Environment & Sustainable Dev't	30	30	00	45	3	
BACC 1101	Fundamentals of Accounting	45	0	0	45	4	
<b>Total</b>						<b>13</b>	

<b>Research</b>						
<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BREM 2201	Research Methods	30	30	0	45	3
BREP 3102	Research Project	00	00	90	45	3

**Practicum**

Code	Name	LH	TH	PH	CH	CU
BSFE 2301	Field Education I	0	0	90	45	3
BSFE 3302	Field Education II	0	0	90	45	3
						<b>6</b>

**General courses**

Code	Name	LH	TH	PH	CH	CU
GECR 1101	Christian Beliefs	45	0	0	45	3
GECC 1101	Fundamentals of Computers & Office Appl	30	0	60	60	3
GECL 1101	Introduction to Writing Skills	30	30	0	45	3
GECS 1201	Issues in Science and Religion	30	30	0	45	3
GECS 1202	Statistics	30	30	0	60	3
GECA 1201	Philosophy of Christian Education	30	30	0	60	4
GECV 1201	Motor Vehicle Driving	0	30	30	30	2
						<b>21</b>

**Semester Schedule****First Year Semester 1**

Codes	Course Title	CU
GECR 1101	Christian Beliefs	3
GECC 1101	Fundamentals of Computers & Office Application	3
GECL 1101	Introduction to Writing Skills	3
BPAM 1101	Introduction to Public Administration	4
BPAM 1102	Introduction to political Science	3
BPAM 1103	Introduction to Political Philosophy	4
		<b>20</b>

**First Year Semester 2**

Codes	Course Title	CU
GECS 1201	Issues in Science and Religion	3
GECS 1202	Statistics	3
GECA 1201	Philosophy of Christian Education	4
GECV 1201	Motor Vehicle Driving	2
BPAM 1204	Governance and Politics in Africa	4
BADS 1204	Project Planning and Management	3
		<b>19</b>

**Second Year Semester 1**

Codes	Course Title	CU
BPAM 2105	Public & Private Sector Management	4
BPAM 2106	Politics in Developing Countries	4
BPAM 2107	Communication Skills and Public Relations	3
BPAM 2108	CSO and Development	3
BACC 1101	Fundamentals of Accounting	4
BADS 2212	Environment and Sustainable Development	3
		<b>21</b>

**Second Year Semester Two**

Codes	Course Title	CU
BPAM 2209	Policy Administration and Management	4
BPAM 2210	Comparative Public Administration	4
BPAM 2211	Urban Planning and Development	3
BHRM 2209	Human Resource Management	3
BPAM 2212	Organizational Behavior	3
BREM 2201	Research Methods	3
		<b>20</b>

**Second Year Semester Three**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
BSFE 2301	Field Education 1	3
<b>Total</b>		<b>3</b>

**Third Year Semester One**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
BPAM 3113	Administrative Law	4
BPAM 3114	Local Government and Decentralization	3
BREP 3102	Research Project	3
BPAM 3115	Public Finance	3
BPAM 3116	Democracy and Human Rights	3
BPAM 3117	Ethics in Public Administration	3
		<b>19</b>

**Third Year Semester Two**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
BPAM 3218	Development Administration	4
BPAM 3219	Political Economy	4
BPAM 3220	Strategic Management	4
BPAM 3221	International Relations	3
BPAM 3222	Peace and Conflict Studies	3
BPAM 3223	Public Procurement and Logistics Management	3
		<b>21</b>

**Third Year Semester Three**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
BSFE 3302	Field Education II	3

**DIPLOMA IN PUBLIC ADMINISTRATION AND MANAGEMENT**

<b>Course Category</b>	<b>Credits</b>
Major Concentration	45
Cognate Courses	22
General Course	13
Research	06
Practicum	03
<b>Total</b>	<b>84</b>

**Major Concentration**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
DPAM 1101	Intro. to Public Administration	30	30	00	45	3
DPAM 1102	Introduction to Political Science	30	30	00	45	3
DPAM 1103	Introduction to Political Philosophy	45	30	00	60	4
DPAM 1204	Entrepreneurship Theory & Practice	30	30	00	45	3
DPAM 1205	Introduction to Political Psychology	30	30	00	45	3
DPAM 1206	Governance and Politics in Africa	45	30	00	60	4
DPAM 1207	Public & Private Sector Management	45	30	00	60	4
DPAM 2108	Introduction to Financial Admin.	30	30	00	45	3
DPAM 2109	Gender in Public Admin. & Mgt	30	30	00	45	3
DPAM 2110	Local Gov't & Decentralization	30	00	30	45	3
DPAM 2111	Communication Skills & Public Relations	30	00	30	45	3
DPAM 2112	Ethics & Professionalism in Public Admin	30	30	00	45	3
DPAM 2213	Rural and Urban Administration	30	30	00	45	3
DPAM 2214	Public Policy	15	30	30	45	3
<b>Total</b>						<b>45</b>

**Cognates**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
DDVT 1207	Human Resource Mgt in CSO's	30	30	00	45	3
DDVT 2214	Project Planning and Management	30	30	00	45	3
DDVT 2215	Human Rights	30	00	30	45	3
DDVT 2217	Community and Rural Development	30	30	30	60	4
DDVT 2218	Environment and Development	30	00	30	45	3
DACC 1101	Elementary Financial Accounting	30	30	00	45	3
DCPS 2217	Theories of Personality	30	30	00	45	3
<b>Total</b>						<b>22</b>

**Industrial Attachment (03 hours)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
DSFE 2301	Field Education	00	00	90	45	3

**Research (06 hours)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
DREM 2201	Research Methods	30	30	00	45	3
DREP 2202	Research Project	00	30	30	45	3

**General Courses (13hours)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECR 1101	Christian Beliefs	30	30	00	45	3
GECH 1101	Health Principles	30	00	30	45	3

GECC	1101	Fundamentals of Computer & Office Appl.	45	00	30	60	4
GECL	1101	Introduction to Writing Skills	30	60	00	45	3

### Semester Schedule

#### First Year - First Semester

Codes	Course Title	CU
DPAM 1101	Introduction to Public Administration	3
DPAM 1102	Introduction to Political Science	3
DPAM 1103	Introduction to Political Philosophy	4
GECC 1101	Christian Beliefs	3
GECC 1101	Fundamentals of Computer and Office Application	4
GECL 1101	Introduction to Writing Skills	3
GECH 1101	Health Principles	3
<b>Total</b>		<b>23</b>

#### First Year- Second Semester

Codes	Course Title	CU
DPAM 1204	Entrepreneurship Theory and Practice	3
DPAM 1205	Introduction to Political Psychology	3
DPAM 1206	Governance and Politics in Africa	4
DPAM 1207	Public and Private Sector Management	4
DCPS 2217	Theories of Personality	3
DDVT 1207	Human Resource Mgt in Civil Society Organizations	3
<b>Total</b>		<b>20</b>

#### Second Year- First Semester

Codes	Course Title	CU
DPAM 2108	Introduction to Financial Administration	3
DPAM 2109	Gender in Public Administration and Management	3
DPAM 2110	Local Government and Decentralization	3
DPAM 2111	Communication Skills and Public Relations	3
DPAM 2112	Ethics and Professionalism in Public Administration	3
DREM 2201	Research Methods	3
DACC 1101	Elementary Financial Accounting	3
<b>Total</b>		<b>21</b>

#### Second Year- Second Semester

Codes	Course Title	CU
DDVT 2214	Project Planning and Management	3
DDVT 2215	Human Rights	3
DPAM 2215	Rural and Urban Administration	3
DPAM 2216	Public Policy	3
DDVT 2217	Community and Rural Development	4
DDVT 2218	Environment and Development	3
DREP 2202	Research Project	3
<b>Total</b>		<b>22</b>

#### Second Year – Third Semester (summer)

Codes	Course Title	CU
DSFE 2301	Field Education	3
<b>Total</b>		<b>03</b>

## CERTIFICATE IN PUBLIC ADMINISTRATION AND MANAGEMENT

<b>Course Category</b>	<b>Credits</b>
Major Concentration	78
General	13
Practicum	03
<b>Total</b>	<b>91</b>

### Major Concentration

Code	Name	LH	TH	PH	CH	CU
CPAM 1101	Basic Public Admin. and Mgt	30	30	00	45	3
CPAM 1102	Basic Communication Skills	30	15	15	45	3
CPAM 1103	Book Keeping	30	00	30	45	3
CPAM 1104	Fundamentals of Record Mgt	30	30	30	60	4
CPAM 1105	Introduction to Psychology	30	30	00	45	3
CPAM 1206	Basic Ethics in Public Admin.	30	30	00	45	3
CPAM 1207	Elements in Community Dev't	30	30	00	45	3
CPAM 1208	Intro to Leadership & Organization Dev't	30	30	00	45	3
CPAM 1209	Elements of Health & Development	30	00	30	45	3
CPAM 1210	Basic Concepts in Gender Studies	30	30	00	45	3
CPAM 1211	Basic Principles in Local Gov't Admin.	30	30	00	45	3
CPAM 1213	Elements of Entrepreneurship Dev't	30	30	00	45	3
CPAM 2114	Introduction to Public Sector Mgt	30	30	00	45	3
CPAM 2115	Elements in Human Resource Mgt	30	30	00	45	3
CPAM 2116	Basic Concepts of Disaster Mgt	30	30	00	45	3
CPAM 2117	Basic Concepts of NGO Mgn't & Civil Society	30	30	00	45	3
CPAM 2118	Public Office Management	30	30	00	45	3
CPAM 2119	Elements in Public Policy Mgt	30	30	00	45	3
CPAM 2120	Real Life Project 1	15	30	30	60	4
CPAM 2221	Elements in Public Finance	30	30	00	45	3
CPAM 2222	Elements in Taxation	30	30	00	45	3
CPAM 2223	Local Government Financing	30	30	00	45	3
CPAM 2224	Public Private Partnerships	30	30	00	45	3
CPAM 2225	Real Life Project 2	15	30	30	60	4
<b>Total</b>						<b>78</b>

### General Courses

Code	Name	LH	TH	PH	CH	CU
GECC 1101	Fundamentals of Computer & Office App	30	30	00	45	4
GECL 1101	Introduction to Writing Skills	30	30	00	45	3
GECR 1101	Christian Beliefs	30	30	00	45	3
GECH 1101	Health Principles	30	30	00	45	3
<b>Total</b>						<b>13</b>

### Practicum

Code	Name	LH	TH	PH	CH	CU
CSFE 2301	Field Education I	00	00	90	45	3
<b>Total</b>						<b>03</b>



**Semester Schedule****First Year- First Semester**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
GECC 1101	Fundamentals of Computer and Office Application	4
GECL 1101	Introduction to Writing Skills	3
CPAM 1101	Basic Public Administration and Management	3
CPAM 1102	Basic Communication Skills	3
CPAM 1103	Book Keeping	3
CPAM 1104	Fundamentals of Record Management	4
CPAM 1105	Introduction to Psychology	3
<b>Total</b>		<b>23</b>

**First Year- Second Semester**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
GECR 1101	Christian Beliefs	3
CPAM 1206	Basic Ethics in Public Administration	3
CPAM 1207	Elements in Community Development	3
CPAM 1208	Intro. to Leadership & Organization Development	3
CPAM 1209	Elements of Health and Development	3
CPAM 1210	Basic Concepts in Gender Studies	3
CPAM 1211	Basic Principles in Local Government Administration	3
CPAM 1213	Elements of Entrepreneurship Development	3
<b>Total</b>		<b>24</b>

**Second Year- First Semester**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
CPAM 2114	Introduction to Public Sector Management	3
CPAM 2115	Elements in Human Resource Management	3
CPAM 2116	Basic Concepts of Disaster Management	3
CPAM 2117	Basic Concepts of NGO Management and Civil Society	3
CPAM 2118	Public Office Management	3
CPAM 2119	Elements in Public Policy Management	3
CPAM 2120	Real Life Project 1	4
<b>Total</b>		<b>22</b>

**Second Year- Second Semester**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
CPAM 2221	Elements in Public Finance	3
CPAM 2222	Elements in Taxation	3
CPAM 2223	Local Government Financing	3
CPAM 2224	Public Private Partnerships	3
CPAM 2225	Real Life Project 2	4
GECH 1101	Health Principles	3
<b>Total</b>		<b>19</b>

**Second Year – Third Semester (summer)**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
CSFE 2301	Field Education	3
<b>Total</b>		<b>03</b>

## COURSE DESCRIPTION PUBLIC ADMINISTRATION

### **BPAM/DPAM 1101 Introduction to Public Administration**

This course is designed as abroad introduction to public administration it is aimed at introducing students to the basic principles, concepts, theory and practice of public administration. Emphasis will be put on the importance of public administration in Human Societies, the execution of the public laws, regulations, court decisions and public policies that form the core of our constitutional form of government. The course will also examine the foundations, organization, financing and management of this administrative responsibility. The course will also to create an informed understanding of the profound impact of public administrative processes and procedures on the daily lives of citizens among others.

### **BPAM/DPAM 1102 Introduction to Political Science**

The course is designed to introduce students to the subject of Political Science. It examines various concepts related to the discipline and tries to investigate the relationships between Politics and Society. Approaches and methods to the study of the subject are examined in detail in order to equip the students with analytical skills so as to relate ideas to practice and theory of Political Science. Philosophical contributions to politics are also introduced to the students. Purposely, this is to incorporate thinkers and thoughts that were earlier not imagined as part of the discipline. These new thoughts, coupled with the historical and western thinking on issues such as human nature, the role and meaning of the state, human freedom and liberty have made political philosophy a diverse course that examines not only western ideas but also African oriented ones. It thus becomes important that contending meanings attached to different ideas and theories by different thinkers get reviewed.

### **BPAM/DPAM 1103 Introduction to Political Philosophy**

This course is an introduction to the classical texts and themes of political thought. We will be reading selections from the canonical works of Plato, Aristotle, Hobbes, Rousseau and Mill. These texts have provoked thought across many centuries on a wide range of topics— the question of justice, the organization of communities, the exercise and regulation of power, the rights of citizens, the meaning of liberty. We will also be reaching outside the Western canon to explore the works of original thinkers whose writings have deeply influenced the politics of our times. We will look at the issue of violence as a political response—the anti-colonial struggles captured by Frantz Fanon and the psychology of violence as laid out by the anarchist Emma Goldman. We will examine the theory of non-violence created and practiced by both Mahatma Gandhi and Martin Luther King. We will also explore significant works of political theory in the American as well as African traditions with key selections from the Federalist papers, W.E.B. Dubois and Malcolm X among others. The course will conclude with a close examination of Hannah Arendt's powerful analysis of totalitarianism.

### **BPAM 1204/DPAM 1206 Governance and Politics**

This course will expose student to the nature of African politics with the aim of highlighting the colonial influences on the nature and character of African politics, explain the predominance of foreign influence in African politics, understand the interplay of economic interest/forces and political events in Africa and learn to offer explanations for political instability in Africa.

### **BPAM 2105/DPAM 1207 Public and Private Sector Management**

This is an introductory course to Public Administration and Management in the public sector. It aims to familiarize students from various disciplines about the nature and

profession of public management, with an understanding of the institutional, political, organizational, and ethical context of public management. The course gives equal emphasis to: (1) the theoretical foundation and the intellectual development of public administration as a discipline; (2) the institutions and politico-economic landscapes within which public manager operates; and (3) the skills, techniques, values, and ethics associated with the manager's and public administrators' role

### **BPAM 2106 Politics in Developing Countries**

This course introduces students to the basics of concepts of political science and comparative politics of developing world in particular. Students will be equipped with how to work with concepts such as power, authority, institutions, development, modernisation, political regime etc. The course will also highlight key issues such as state and nation building process, institutional building, increasing state capacity and enhancing regional integration. The course will also discuss applications of comparative in the developing countries of Africa.

### **BPAM 2107/DPAM 2111 Communication Skills and Public Relations**

This course promotes understanding of the practice of public relations from both theoretical and practical perspectives, discussing key concepts of public relations as a communication management function. Topics explored include social and organizational contexts of public relations management and strategies for planning, implementing, and evaluating public relations. The course is designed to provide a broad-based understanding of communication strategies and their applicability to public and non-profit organizations. It is intended to enable students to manage their communication and publicity efforts strategically. It develops a special knowledge of public communication campaigns that addresses a variety of social issues related to the environment, culture, education, public health, and many other public and social programs and services.

### **BPAM 2108 Civil Society Organizations and Development**

The course is designed to equip students with practical and theoretical knowledge and skills that will enable them to understand, appreciate and comprehend the role of Civil Society Organizations with special emphasis on Nongovernmental organizations as key partners in the development process. It examines the typology of CSOs/NGOs, and analyses the push and pull factors responsible for the proliferation of NGOs with particular reference to developing countries. The course also examines two different development approaches that are the backdrop for NGOs emergence and intervention in the development arena. An analysis of the contribution of NGOs to the development process is done, and NGOs-government relationship discussed. The course also examines strategies CSOs/NGOs use to increase their space, influence, effectiveness, and survivability. Attention is given to understand the basis on which CSOs/NGOs engage in policy issues and the prerequisites for effective engagement. The rationale for CSOs/NGOs collaborative relationships is discussed and strategies to develop sustainable networks examined.

### **BPAM 2209 Policy Administration and Management**

The course of public policy is a critical and salient area in public sector management given that nothing productive and sounding can be arrived at without the aspect of policy making that gives direction. This unit will explore models of policy making, decision making models, public policy practice and enactment, strategies for policy persuasion, policy implementation, policy monitoring and evaluation among other salient issues.

### **BPAM 2210 Comparative Public Administration**

This course aims at giving an understanding of the nature of public administration and its essence. It takes a comparative perspective of administrative systems as they exist in different context. It deals with conceptual issues, theoretical paradigm as well as empirical issues in administration. It takes care of specific cultural, economic and political situations in comparative perspective.

### **BPAM 2211/DPAM 2213 Urban Planning and Rural Development**

In Urban planning and management course, the students will be informed of the causes of urbanization, historical perspective of urbanization in Africa, the trends in both developing and developed countries, attendant challenges and constraints and urban and central government interventions, the need for planning for urban centers, types of planning and challenges of planning. Attention will be given to discussing the impact of IMF and World Bank sponsored programmes and neoliberal policies such as privatization, restructuring public service, privatization, and cost sharing, on provision and access to public services in urban areas.

### **BPAM 2212 Organisational Behavior**

Organizational/Administrative Theories is an interdisciplinary field drawing from numerous disciplines including psychology, sociology, anthropology, economics, organization theory, statistics, and many others. Effective management of human resources within organizations requires an understanding of various behaviour and processes. Managers need to know why people behave as they do in relation to their jobs, their work groups and their organizations. This knowledge of individuals' perceptions, motivational attitudes and behaviour will enable managers to not only understand themselves better, but also to adopt appropriate managerial policies and leadership styles to increase their effectiveness. The focus of instruction will move progressively through the individual, group and organizational level and will examine the interrelationships of behavioural phenomena among these levels. Additionally, concepts such as motivation, communication and leadership and the irrelevance to organizational behaviour will be examined in detail. The course is also designed to help the students in understanding that whether Western Organizational Behavioural theories and practices have any relevance to the local settings or not. The course will also discuss the Islamic perspective of understanding and directing human behaviour in a specific direction.

### **BPAM 3113 Administrative Law**

This course is designed to examine some parts of the government which are neither legislative nor judicial but involved in decision making of the day to day activities of the government. As the agency carry out their tasks by making decisions, thus administrative law is the law that regulates and limits the powers and duties of government and administrative authorities and provides means by which citizens authorize democratic government to account for their action engage in decision making expose students to the rule of law and how it is essential to democracy. An analysis of how administrative law enhance s transparency and accountability through regulatory and administrative processes, including administrative procedures open rule making public consultations will be covered in this course. Thus, the course will give an overview of law and discuss its purpose and scope, administrative theories, growth and characteristics of administrative law, legal safe guards over administration, fundamental human rights, Judicial reviews of administration, administrative procedure etc.

### **BPAM 3114/DPAM 2110 Local Government and Decentralization**

The course in local government is aimed at providing a basic introduction to local government with emphasis on African local governments. The course will discuss

responsibilities, organization financing and management of local government. Students will also be exposed to the analysis of the relationship between central government and local government including the fiscal assistance, limited content of local government transparency, including ethics and open government. The course will also discuss the primary sources of revenue, important local government taxes and general budget procedures that must be followed in local government. Finally the course will discuss how to formulate opinions about the need for local government reform, challenges and opportunities for local government collaboration and shared services.

### **BPAM 3115/DPAM 2108 Public Finance Management**

This course is intended to provide public administration graduates an overview of public agency budgeting and financial management. Public agency budgets are the means by which public resources are allocated and, as such, are central to the role of government. The course will provide an overview of the budget process, including the players and the strategies they employ, as well as provide students with the practical skills involved in understanding, analyzing and preparing budgets.

### **BPAM 3116 Democracy and Human Rights**

This course is aimed at exploring the relationship between politics, democracy and human rights, explore the foundations and the legitimacy of international law, and investigate the norms, institutions, applications of – and challenges to – human rights. The course will also address the role of civil society and non-state actors, the question as to whether or not collectivities can have rights, the trade-off between security and liberty, the relationship between democracy and economic development, the protection of minority rights, and the international responses to political violence. Ultimately, the aim of this course is to investigate how the moral, judicial, social and economic dimensions of human rights interact with their essential political dimension in contemporary world of politics

### **BPAM 3117/DPAM 2112 Ethics in Public Administration**

This course lays on an ethical foundation to understanding of public service with specific focus on African in particular and the world at large. It is designed especially for those doing public administration and management and is offered for a period of one semester. It is intended to equip students with basic ethical values in public service, how to handle ethical challenges and dilemmas and paving the way forward for a better public service in Africa. The course puts emphasis on the fight against corruption in Africa and tackling unethical behavior in public service.

### **BPAM 3218 Development Administration**

The developing countries grapple with the imperative reality of the challenges of accelerating the pace of socioeconomic development. Countries of the Developing World aspire to modernity, and there is high ambition to achieve national development. However, ambition alone does not save the problem of under development or even negative development. Countries have to struggle hard to ensure all round and sustainable develop is taking place, and that there are vibrant political, social, economic, and administrative institutions and systems. Development administration and management is one of the primary strategies to achieve socio-economic and political progress. This course aims; to equip students with practical and theoretical knowledge and skills that will enable them to understand and appreciate the various issues pertaining to development administration. This course purposes to contribute towards preparing learners to be development managers and practitioners in both public and private sector.

### **BPAM 3219 Political Economy**

This course focusses on the inter-relationship between politics and economic development, with emphasis on the changing role of the state in economic development it explores the debates relating to prospective roles of the state and the market in the development process this debate explores both how socio-political factors influence the development process and how economic factors in turn shape the political trajectories of developing nations. An analysis of the concept development and the role of state power in development will be covered in this course, the interface between state and economy in Africa's development this will help students understand the complexity of the relationship between the state and economy.

### **BPAM 3220 Strategic Management**

This course is designed to help students, integrate and apply your knowledge in functional courses and on-the-job experiences. The course takes the general management point of view, emphasizing the creation, implementation and evaluation of strategy in organizations. In addition to focusing on for-profit businesses, this section includes a module on strategy in non-profits as well.

### **BPAM 3221 International Relations Theory**

This course is designed to provide an introduction to some of the major theoretical perspectives for studying how states and peoples behave and interact. No prior background in international relations is assumed or required. Students will acquire some basic analytical tools for understanding and explaining a wide array of international phenomena, including war, environmental degradation, alliance behavior, international norms, internal conflict, arms races, and others. Our goal is to help students better understand why we observe certain policy outcomes in the international arena, and to help you devise policy responses that are consistent with international realities and thus more likely to succeed.

### **BPAM 3222 Peace and Conflict Studies**

This course will explore the genesis of social conflicts, their possible resolution, or their ultimate degeneration into crisis and war. Since the conflict-crisis-war cycle is born out and nurtured during times of "peace," The course will also focus on time in order to understand the nature of social conflicts, the evolution into crisis, and the conditions for their potential resolution and/or degeneration into mass violence. Accordingly, this course will examine different definitions of conflict, security, stability, peace, war and their significance in both historical and contemporary perspectives. It will also explore the causes of mass violence (war) and interstate peace and their gradations in the international state system. It will review the basic literature on military strategy and its relation to the onset and evolution of international crises, war, and peace. It will discuss major philosophical works on the notions of conflict, security, violence, war, and peace among state actors. This course's will also analyse the state and the state system.

### **BPAM 3223 Public Procurement and Logistic Management**

The course provides the fundamental principles and practices of public procurement. It also makes a detailed analysis of the difference between public sector and private sector procurement, public sector procurement policies and procedures, government institutions and their consequences for procurement professionals. The course covers an over view of disposal management, the different forms of disposal; the emerging issues and future trends of disposal management are emphasized.



### **DPAM 1204 Entrepreneurship theory and practice**

This course provides an introduction to theoretical and experimental issues in entrepreneurship including the language of entrepreneurship including the language of entrepreneurship, creativity and innovation learn startups, intrapreneurship, and learning from both successful and unsuccessful ventures. Discussion with entrepreneurs will be used to promote in depth learning

### **DPAM 1205 Introduction to Political Psychology**

This course provides an introduction and overview to the field of political psychology. Political psychologists have applied insights of psychological science to a host of research questions relating to mass political behavior. In this course we will sample from across this broad range of topics in order to discover what ordinary people think and feel about politics. How do citizens organize their thoughts on politics? How do emotions influence political decision-making? What considerations go in to citizens' racial attitudes and tolerance judgments? Do the media exert a strong influence on how citizens think about politics? In order to understand the key concepts in political psychology we will read much of this research in its original form.

### **DPAM 2109 Gender in Public Administration and Management**

Over the course of history, gender has played an important role in public administration. By influencing the ways in which people think about administration and bureaucracy, it has become impossible to look at public administration without examining the place of the feminine/masculine dichotomy. In today's society, public administration remains widely segregated in regard to gender, though it has become commonplace to advocate for greater numbers of equality and non-discrimination policies

### **DPAM 2214 Public Policy**

This course is designed to introduce students to public policy analysis in a government setting. It will examine the various tools and stages of policy analysis and development that may be conducted in different governance contexts whether rational, advisory, or participative. The course will also review critical thinking skills associated with policy analysis work. The course will examine the value policy analysis provides to First Nation government's decision making and governance in general.

### **CPAM 1101 Basic Public Administration and Management**

This Course introduces the learners to the concepts and functional areas of public administration and management

### **CPAM 1102 Basic Communication Skills**

This course introduces learners to basic knowledge and skills to communicate professionally within their environment

### **CPAM 1103 Book Keeping**

This course introduces learners to the fundamental principles and practices of bookkeeping with emphasis on the framework and procedures of recording, classifying and analysing business transactions. Learners will acquire knowledge and understanding of bookkeeping concepts and apply the generally accepted principles to their day - to - day business scenarios. It mainly involves recording of transactions and preparation of source documents, books of account and simple sets of financial statements

### **CPAM 1104 Fundamentals of Record Management**

This course covers the fundamental principles and practices of records management. It provides participants with a basic understanding of the activities involved in managing both paper and digital records

### **CPAM 1105 Introduction to Psychology**

In this course we will explore a broad, general survey of the vast field that is Psychology. The main goals of this course are to acquaint you with the different areas contained within Psychology, to provide you with some of the major concepts of each area, and to teach you how to think like psychologists. That is, you'll learn to think more scientifically about what makes people think, feel, and behave in the ways that they do.

### **CPAM 1206 Basic Ethics in Public Administration**

This course introduces learners to the fundamental Administration Ethics with emphasis on the acceptable code of conduct expected of public officers and administrators. Learners will acquire knowledge and understanding of an acceptable code of ethical behaviour in public organisations and apply the generally accepted principles to their day - to - day business scenarios.

### **CPAM 1207 Elements in Community Development**

This course in Community Development which is one of the liberal arts that will prepare you for a lifetime of change. This course will help you develop and appreciate the basic characteristics of community development, how social, economic, political and governance factors affect and impact community development, and how gender issues and climate change affect community development.

### **CPAM 1208 Introduction to leadership and organization Development**

Leadership requires effective management of people and a clear understanding of human behavior and social processes. Leaders need to have a good understanding both of themselves and of those whom they will lead. Leaders need to know why people behave as they do in relation to their job, work group, and organization. This knowledge of individuals' perceptions, attitudes, and behavior enables leaders to choose appropriate leadership styles and managerial practices to increase organizational effectiveness and positive human outcomes. After actively participating in all aspects of this course, you will develop the knowledge, skills and abilities to effectively manage and lead others now and in the future. The course moves progressively through individual, group, and organizational levels of behavior drawing on concepts and practices from the field of Organizational Behavior (OB). It also examines the interrelationship of behavioral phenomena among these levels. Studying OB provides a basic understanding of your own and others' behavior, particularly in teams. It enhances your ability to communicate and work effectively with others, core skills of leadership. Our goal is to help you strengthen your people management skills so you can be a successful leader in any field you choose.

### **CPAM 1209 Elements of Health and Development**

This course is designed to introduce students to the study of factors that influence the health of populations. This course will focus on how to interpret common measures of population health, such as life expectancy at birth and measures of morbidity and disability. The course will look at the population health will be considered from a comparative and historical perspective. We will study the principal factors driving the massive health improvements of the past century, as well as some of the obstacles that have recently emerged. We will also discuss social relationships and health and the ways in which we affect each other's health

### **CPAM 1210 Basic Concepts in Gender Studies**

This course will introduce students to the complex interdisciplinary field that is gender studies today. This course brings together women's and feminist studies, men's and masculinity studies, studies of gender itself, and LGBT/Queer studies. All told, these



areas of study cover quite a bit of ground. What holds them together, though, is a shared perspective, a set of lenses through which to view and analyze more traditional fields of study like history, literature, and even the sciences. In this course, we'll consider what those lenses look like and how they work. We'll practice putting them on, and we'll explore how different aspects of the world around us (and we, ourselves) change when viewed through the lenses of gender studies.

#### **CPAM 1211 Basic Principles of local government Administration**

This course will expose them to evolution, the changes local governments have witnessed in Nigeria, various theories used in studying it, its place in National Scheme of things; its relationship with other tiers of government: sources of generating revenue and other science and practice of local government

#### **CPAM 1212 Elements of Entrepreneurship Development**

This course introduces learners to the concepts and principles of entrepreneurship. It Introduces learners to the concepts of entrepreneurship. It exposes learners to viable business opportunities. It also equips learners with knowledge and skills to start and manage a business.

#### **CPAM 2113 Introduction to Public Sector Management**

This module will provide learners with knowledge and skills to work in public sectors and be able to observe the policies, governance and ethics required in public administration. The students should be able to apply relevant theories of public sector management and deliver services to the community.

#### **CPAM 2114 Elements of Human Resource management**

By the end of the course, the learner should be able to use available resources effectively and efficiently, the students will be exposed to HR planning, recruitment and selection, placement, performance appraisal, and training and Development

#### **CPAM 1215 Basic Concepts of Disaster Management**

This course will look at the definition, Scope and types of disasters, objectives of disaster management, vulnerability. Elements of disaster management: preparedness, assessment, recovery, rehabilitation and management. Resource mobilization in disaster management. Information collection and management. Strategies and approaches for disaster management. Logistics and implementation, remedial measures. Community mobilization for disaster management.

#### **CPAM 2116 Basic Concepts of NGO Management and Civil society**

This course is aimed primarily at students who wish to develop their knowledge and skills in preparation for moving into such positions. NGOs come in many shapes and sizes: in this course the focus is generally on the management of medium-sized NGOs that work at regional or national levels. Employees in large national or international NGOs may also find it useful, particularly those who work closely with national or local partners and wish to understand some of the organisational challenges involved.

#### **CPAM 2117 Public Office Management**

The course will introduce learners to concepts of an office and its environment. It is intended to equip learners with knowledge, skills, and competences of planning, organising, and controlling an office. The students will be able to perform administrative functions in an office and organise an office

#### **CPAM 2219 Elements in Public Policy Management**

This course is intended to bring some clarity to the policy process in the Uganda. Why do we even need public policy? What is the context in which policy decisions are made?

How are policies developed, chosen, implemented, and evaluated? Students will learn the basics of decision-making in the policy process, discover many of the institutional and values-based constraints that affect policy outcomes, and become more familiar with strategies to influence all phases of the policy process. Throughout the quarter we will draw on relevant policy topics to illustrate these points.

### **CPAM 2220 Real Life Project I**

This course will develop learners' skills and positive attitude towards work and enables them to set up and operate real life projects.

### **CPAM 2221 Elements in Public Finance**

The essence of curving out local governments is to make public services readily accessible to the people and to empower them in decision making on matters affecting them. This course therefore focuses on knowledge and skills that are necessary for an administrative assistant working for or in conjunction with local governments in delivering services to people in their localities. Aspects of local government resource mobilisation, allocation and control are covered here.

### **CPAM 2222 Elements in Taxation**

The course introduces learners to the core aspects of tax systems in Uganda. It provides learners with a foundation to prepare tax returns for individual, business and non - business tax payers. Students will carry out simple tax assessments and apply the basic concepts of taxation to compute taxable income and liabilities.

### **CPAM 2223 Local Government Financing**

The essence of curving out local governments is to make public services readily accessible to the people and to empower them in decision making on matters affecting them. The module therefore focuses on knowledge and skills that are necessary for an administrative assistant working for or in conjunction with local governments in delivering services to people in their localities. Aspects of local government resource mobilisation and allocation are covered here.

### **CPAM 2223 Public Private Partnership**

Public Private Partnerships are now one of the innovative options introduced by Government of Uganda to enable public sector procure infrastructure and offer opportunities to improve service delivery and ensure value for money. The course unit intends to introduce learners to the basic concepts, processes, operations, benefits and challenges of Public Private Partnerships. The learners should also be able to participate meaningfully in the execution of Public Private Partnerships contracts. The learners should be able to apply Public Private Partnerships the management of public assets and resources

### **CPAM 2224 Real Life Project II**

The course will develop learners' skills and positive attitude towards work and enables them to set up and operate real life projects.

### **CSFE 2301 Industrial Attachment**

This course provides learners with opportunity of placement in organisations to have practical exposure to unfamiliar environments and critically assess existing practices in workplaces as they apply skills acquired in class into their career-related areas. The learners will be able to develop the interpersonal, communication and teamwork skills, enhanced the work ethics and professionalism, and been talent-spotted by the organisation where he/she interned from.

## DEPARTMENT OF SOCIAL WORK AND SOCIAL ADMINISTRATION

**Head of Department:** Esther Nanono Nsubuga, MA (Dev Studies)(Bugema), PGD (Counsel. Psych)(UNIK), BA (Econ)(Goa University, India), (Cert. Guid. & Counsel) (Makerere)

### **Vision**

The Department of Social Work and Social Administration envisions excellent and distinctive holistic social work education for service to God and humanity.

### **Goal**

The Department of Social Work and Social Administration seeks to train social workers and Counselors who excel in service to God and humanity.

### **Objectives**

- To provide courses that will acquaint students with knowledge, skills and values in the field of Social Work and Social Administration, and Psychology and Counseling.
- To provide courses that will facilitate personal, social, academic and professional development in order to meet individual and societal demands in the changing world.
- To offer Christian oriented introductory and general courses so as to instill in the students an unswerving allegiance to the principles of the Christian faith.
- To offer introductory courses as general requirements and cognates from other fields of study so as to instill a sense of personal responsibility and broaden their knowledge base.
- To provide both on campus and off campus work opportunities and courses which provide practical experience in order to inculcate in the students a positive attitude towards work.
- To establish Social Work and Counseling oriented supportive services and infrastructure to reinforce students' learning including a national resource center.
- To carry out research, workshops, debates, seminars and conferences that fit into development activities of the local community and the world at large.

### **Programs Offered:**

- Bachelor of Social Work and Social Administration
- Bachelor of Science in Psychology and Counseling
- Diploma in Social Work and Social Administration
- Diploma in Counseling Psychology
- Certificate in Counseling

### **Entry Requirements for Degree**

- According to the University entry requirements

### **Career Opportunities – Social Work**

- Probation Officer
- Warden
- Project Manager
- Social Support Personnel
- Researcher
- Instructor/Lecturer
- Advocacy Agent

### **Career Opportunities – Counseling**

- Counselor (in schools, hospitals, prisons, churches )
- Trainer and/or Consultant
- Instructor
- Social Support Personnel

### **Field Trip**

The Department of Social Work requires all students to go for educational field trip twice; in the second and third year for degree students and once (in the second year) for diploma and certificate students as a basic requirement for graduation. The purpose of the field trip is to equip students with first-hand experience that enhances the students' theoretical knowledge.

For degree students two courses are attached to field trip and the report is part of the final grading. The first year second semester social work students will have the course BSWA 1205: Social Work Theory and Practice as the field trip course and the second field trip will be taken during the third year in the second semester under the course: BSWA 3216: Elements of Social Work Intervention.

For counseling, students they will have to take the field trip under the course BSPC 2215: Counseling Special People in the second year second semester and in third year second semester the field trip course will be BSPC 3223: Abnormal Psychology.

For the Diploma course, students will have to take DSWA 2211: Social Work Ethics, Theory & Practice as a field trip course.

Diploma in Counseling Psychology students will have to take DCPS 2216: Counseling Special Populations.

Certificate in Counseling students will have to take CCSG 2216: Counseling Special Populations.

**NOTE:** The reports will be handed to the lecturers teaching these courses for grading within two (2) weeks after the field trip.

### **Counseling Sessions for Counselling Students**

It is a requirement that every student registered for counseling attends a minimum of 4 sessions of personal counseling in a semester as a requirement for graduation. This will imply that certificate and diploma students will have a minimum of 16 sessions, and degree students will have a minimum of 24 sessions without which they will not graduate.

## BACHELOR OF SOCIAL WORK AND SOCIAL ADMINISTRATION

### Degree Summary

Course Category	Credits
Major Courses	60
Language	06
Field Education Practicum	06
Research	06
Cognates	27
General Education	21
<b>Total</b>	<b>126</b>

### Language Requirement

In addition to the requirements for English, Social Work and Social Administration students are required to take either a sequence of two courses in Sign language (BSWL 3101, BSWL 3202), OR Kiswahili (BKSW 2101, BKSW 2202).

### Major Courses (60 credit units)

Code	Name	LH	TH	PH	CH	CU
BSWA 1101	Intro. to Social Work	30	30	00	45	3
BSWA 1102	Intro. to Social Administration	30	30	00	45	3
BSWA 1103	Intro. to Adult Education	30	00	30	45	3
BSWA 1204	Social services Delivery Systems	30	00	30	45	3
BSWA 1205	Social Work Theory & Practice	30	00	30	45	3
BSWA 2106	Social Work Methods, Skills & Techniques	30	00	30	45	3
BSWA 2107	Social Security & Social Protection Systems	30	00	30	45	3
BSWA 2108	Ethics and Values of Social Work	30	30	00	45	3
BSWA 2109	Community Based Health Care	30	00	30	45	3
BSWA 2110	Community Based Rehabilitation	30	00	30	45	3
BSWA 2211	Community Based Intervention Strategies	30	00	30	45	3
BSWA 2212	Human Resource Mgt & Industrial Relations	30	30	00	45	3
BSWA 3113	Children Welfare and Protection	30	00	30	45	3
BSWA 3114	Developmental Social Work	30	30	00	45	3
BSWA 3115	Social Policy Planning and Analysis	30	30	00	45	3
BSWA 3216	Elements of Social Work Interventions	30	00	30	45	3
BSWA 3217	Introduction to Gender Studies	30	30	00	45	3
BSWA 3218	Equity and Human Rights	30	00	30	45	3
BSWA 3219	Social Defense & Criminal Justice Sys.	30	00	30	45	3
BSWA 3220	Social Sector Finance & Budgeting Mgt	30	30	00	45	3
<b>Total</b>						<b>60</b>

### Language (06 Credit Units)

Code	Name	LH	TH	PH	CH	CU
BSWL 3101	Sign Language I	30	30	0	45	3
BSWL 3202	Sign Language II	30	30	0	45	3

\* Students must take either the sequence in Swahili, or Sign Language 06

**Cognates (27 hours)**

Code	Name	LH	TH	PH	CH	CU
BADS 1204	Project Planning and Management	30	00	30	45	3
BPAM 3113	Administrative Law	30	00	30	45	3
BPAM 3114	Local Gov't & Decentralization	30	30	00	45	3
BSPC 1203	Developmental Psychology	30	30	00	45	3
BSPC 1205	Theories & Techniques of Counseling	30	30	00	45	3
BHEM 1101	Principles of Emergency & Disaster Mgt	30	30	00	45	3
BHEM 3119	Refugee Protection and Forced Migration	30	00	30	45	3
BMGT 1201	Management and Organization	30	30	0	45	3
BECO 1101	Micro-economics	30	30	0	45	3

**Research (06 Credit Units)**

Code	Name	LH	TH	PH	CH	CU
BREM 2201	Research Methods	30	30	00	45	3
BREP 3102	Research Project	15	00	60	45	3

**Field Work (6 Credit Units)**

Code	Name	LH	TH	PH	CH	CU
BSFE 2301	Field Education Practicum I	00	00	90	45	3
BSFE 3302	Field Education Practicum II	00	00	90	45	3

**General Courses (21 Credit Units)**

Code	Name	LH	TH	PH	CH	CU
GECR 1101	Christian Beliefs	30	00	30	45	3
GECC 1101	Fundamentals of Computer and Office Applications	30	30	30	60	4
GECL 1101	Introduction to Writing Skills	30	00	30	45	3
GECS 1201	Issues in Science and Religion	30	00	30	45	3
GECS 1202	Statistics	30	30	00	45	3
GECA 1201	Philosophy of Christian Education	30	00	30	45	3
GECV 1201	Motor Vehicle Driving	15	00	30	45	2

**Total****21****Course Schedule****First Year Semester 1**

Codes	Course Title	CU
BSWA 1101	Introduction to Social Work	3
BSWA 1102	Introduction to Social Administration	3
BSWA 1103	Introduction to Adult Education	3
GECL 1101	Introduction to Writing Skills	3
GECL 1101	Christian Beliefs	3
GECH 1101	Health Principles	3
GECC 1101	Fundamentals of Computer and Office Applications	4

**Total****22****First Year Semester 2**

Codes	Course Title	CU
BSWA 1204	Social Services Delivery Systems	3
BSWA 1205	Social Work Theory & Practice (attached to a field trip)	3
BSPC 1205	Theories and Techniques of Counseling	3
BSPC 1203	Developmental Psychology	3
GECS 1202	Statistics	3

GECA	1201	Philosophy of Christian Education	3
GECV	12 --	Vocational course	2
<b>Total</b>			<b>21</b>
<b>Second Year Semester 1</b>			
<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
BSWA	2106	Social Work Methods, Skills & Techniques	3
BSWA	2107	Social Security & Social Protection Systems	3
BSWA	2108	Ethics and Values of Social Work	3
BSWA	2109	Community Based Health Care	3
BSWA	2110	Community Based Rehabilitation	3
BECO	1101	Microeconomics I	3
BHEM	3119	Refugee Protection and Forced Migration	3
<b>Total</b>			<b>21</b>
<b>Second Year Semester 2</b>			
<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
BSWA	2211	Community Based Intervention Strategies	3
BSWA	2212	Human Resource Mgt & Industrial Relations	3
BSWA	2213	Children Welfare and Protection	3
BMGT	1201	Management and Organizations	3
BADS	1204	Project Planning & Management	3
BREM	2201	Research Methods	3
<b>Total</b>			<b>18</b>
<b>Summer</b>			
<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
BSFE	2301	Field Education Practicum I	3
<b>Total</b>			<b>3</b>
<b>Third Year Semester 1</b>			
<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
BSWA	3114	Developmental Social Work	3
BPAM	3113	Administrative Law	3
BPAM	3114	Local Government and Decentralization	3
BSWA	3115	Social Policy Planning and Analysis	3
BREP	3102	Research Project	3
BSWL	3101	Sign Language 1	3
BHEM	1101	Principles of Emergency and Disaster Management	3
<b>Total</b>			<b>21</b>
<b>Third Year Semester 2</b>			
<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
BSWL	3202	Sign Language II	3
BSWA	3216	Elements of Social Work Interventions (attached to a field trip)	3
BSWA	3217	Introduction to Gender Studies	3
BSWA	3218	Equity, Human Rights and Social Defense	3
BSWA	3219	Social Defense and Criminal Justice System	3
BSWA	3220	Social Sector Finance & Budgeting Management	3
<b>Total</b>			<b>18</b>
<b>Summer</b>			
<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
BSFE	3302	Field Education Practicum II	3
<b>Total</b>			<b>3</b>

**DIPLOMA IN SOCIAL WORK AND SOCIAL ADMINISTRATION**

## Course Summary

<b>Course Category</b>	<b>Credits</b>
Major Courses	36
Cognate	27
General Education	13
Research	06
Field Education Practicum	06
<b>Total</b>	<b>79</b>

**Core Courses (27 Credit Units)**

Code	Name	LH	TH	PH	CH	CU
DSWA 1101	Foundations of Social Work	30	30	00	45	3
DSWA 1102	Introduction to Counseling	30	00	30	45	3
DSWA 1203	Introduction to Social Psychology	30	30	00	45	3
DSWA 1204	Environment and Sustainable Dev't	30	00	30	45	3
DSWA 1205	Introduction to Sociology	30	30	00	45	3
DSWA 1206	Introduction to Community Dev't	30	00	30	45	3
DSWA 2107	Introduction to Social Anthropology	30	30	00	45	3
DSWA 2108	Economics and Development	30	30	00	45	3
DSWA 2109	Human Resource Management	30	30	00	45	3
DSWA 2110	Foundations of Social Policy & Planning	30	00	30	45	3
DSWA 2211	Social Work Ethics, Theory & Practice	30	00	30	45	3
DSWA 2212	Gender and Development	30	30	00	45	3
<b>Total</b>						<b>36</b>

**Cognates (27 Credit Units)**

Code	Name	LH	TH	PH	CH	CU
DDVT 1207	Intro to statistics for Social Science	30	30	00	45	3
DDVT 2202	Proposal Writing Techniques	30	00	30	45	3
DDVT 2203	Project Planning and Management	30	00	30	45	3
DGBA 2103	Entrepreneurship Concepts	30	00	30	45	3
DMGT 2202	Management & Organization Theory	30	30	00	45	3
DCPS 1206	Developmental Psychology	30	30	00	45	3
<b>Total</b>						<b>18</b>

**Research (6 Credit Units)**

Code	Name	LH	TH	PH	CH	CU
DREM 2201	Research Methods	30	30	00	45	3
DREP 2202	Research Project	00	30	60	45	3
<b>Total</b>						<b>6</b>

**Field Work (3 Credit Units)**

Code	Name	LH	TH	PH	CH	CU
DSFE 2301	Field Education Practicum	00	00	90	45	3
<b>Total</b>						<b>3</b>

**General Courses (13 Credit Units)**

Code	Name	LH	TH	PH	CH	CU
GEGR 1101	Christian Beliefs	30	30	00	45	3
GECH 1101	Health Principles	30	30	00	45	3



GECL	1101	Introduction to Writing Skills	30	30	00	45	3
GECC	1101	Fundamentals of Computers	30	30	30	60	4
<b>Total</b>							<b>13</b>

**Semester Schedule****First Year Semester 1**

<b>Codes</b>		<b>Course Title</b>					<b>CU</b>
DSWA	1101	Foundations of Social Work					3
DSWA	1102	Introduction to Counseling					3
GECC	1101	Fundamentals of Computer and Office Application					4
GECH	1101	Health Principles					3
GECL	1101	Introduction to Writing Skills					3
GEGR	1101	Christian Beliefs					3
<b>Total</b>							<b>19</b>

**First Year Semester 2**

<b>Codes</b>		<b>Course Title</b>					<b>CU</b>
DDVT	1207	Introduction to statistics for Social Science					3
DCPS	1206	Developmental Psychology					3
DSWA	1203	Introduction to Social Psychology					3
DSWA	1204	Environment and Sustainable Development					3
DSWA	1205	Introduction to Sociology					3
DSWA	1206	Introduction to Community Development					3
<b>Total</b>							<b>18</b>

**Second Year Semester 1**

<b>Codes</b>		<b>Course Title</b>					<b>CU</b>
DGBA	2103	Entrepreneurship Concepts					3
DREM	2101	Research Methods					3
DSWA	2107	Introduction to Social Anthropology					3
DSWA	2108	Economics and Development					3
DSWA	2109	Human Resource Management					3
DSWA	2110	Foundations for Social Policy and Planning					3
<b>Total</b>							<b>18</b>

**Second Year Semester 2**

<b>Codes</b>		<b>Course Title</b>					<b>CU</b>
DDVT	2202	Proposal Writing Techniques					3
DDVT	2203	Project Planning and Management					3
DMGT	2202	Organization & Management Theory					3
DREP	2202	Research Project					3
DSWA	2211	Social Work Ethics, Theory & Practice (Attached to a field trip)					3
DSWA	2212	Gender and Development					3
<b>Total</b>							<b>18</b>

**Summer**

<b>Codes</b>		<b>Course Title</b>					<b>CU</b>
DSFE	2301	Field Education Practicum					3

**BACHELOR OF SCIENCE IN PSYCHOLOGY AND COUNSELING**

<b>Course Category</b>	<b>Credits</b>
Concentration	86
General Courses	21
Research	06
Field Education Practicum	06
Language	06
Cognates	03
<b>Total</b>	<b>128</b>

**Core Courses (86 Credits)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSPC 1101	Introduction to psychology	30	30	00	45	3
BSPC 1102	Social Psychology	30	30	00	45	3
BSPC 1203	Developmental Psychology	30	30	00	45	3
BSPC 1204	Psychology and Parenthood	30	30	00	45	3
BSPC 1205	Theories & Techniques of Counselling	30	30	00	45	3
BSPC 2106	Marriage and Family Therapy	30	00	30	45	3
BSPC 2107	Adolescent Psychology	30	30	00	45	3
BSPC 2108	Psycho Social Issues in Counselling	30	30	00	45	3
BSPC 2109	Psychology of Gender	30	30	00	45	3
BSPC 2110	Food and Nutrition therapy	30	00	30	45	3
BSPC 2111	Group Dynamics	30	00	30	45	3
BSPC 2112	Childhood Disorders	30	00	30	45	3
BSPC 2213	Human Sexuality	30	00	30	45	3
BSPC 2214	Addiction Intervention	30	00	30	45	3
BSPC 2215	Counselling Special People	30	00	30	45	3
BSPC 2216	Grief and Trauma Counseling	30	00	30	45	3
BSPC 2217	Counseling Workshop	15	00	60	45	3
BSPC 3118	Community Psychology	30	00	30	45	3
BSPC 3119	HIV/AIDS Counseling	15	00	60	45	3
BSPC 3120	Child Abuse and Neglect	30	00	30	45	3
BSPC 3121	Multi-Cultural Counselling	30	00	30	45	3
BSPC 3122	Forensic Psychology	30	00	30	45	3
BSPC 3223	Abnormal psychology	30	00	30	45	3
BSPC 3224	Psychological testing	30	00	30	45	3
BSPC 3225	Delinquency psychology	30	00	30	45	3
BSPC 3226	Stress Management	30	00	30	45	3
BSPC 3227	Biblical Counseling	30	00	30	45	3
BSPC 3228	Counseling Consultancy skills	15	00	60	45	3
<b>Total</b>						<b>86</b>

**Field Work (6 Credit Units)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BSFE 2301	Field Education Practicum I	00	00	135	45	3
BSFE 3302	Field Education Practicum II	00	00	135	45	3
<b>Total</b>						<b>6</b>

**General Courses (21 Credit Units)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECR 1101	Christian Beliefs	30	30	00	45	3
GECC 1101	Fundamentals of Computers & Office Applications	15	30	60	60	4

GECL	1101	Introduction to Writing Skills	30	00	30	45	3
GECH	1101	Health Principles	30	00	30	45	3
GECS	1202	Philosophy of Christian Education	30	30	00	45	3
GECS	1202	Statistics	30	30	00	45	3
GECV	1204	Music Appreciation	15	00	30	45	2

**Research (09 Credit Units)**

Code	Name	LH	TH	PH	CH	CU	
BREM	2201	Research Methods	30	30	00	45	3
BREP	3102	Research Project	15	00	60	45	3

**Cognates (03 Credit Units)**

Code	Name	LH	TH	PH	CH	CU	
BADS	1204	Project Planning and Management	30	00	30	45	3

**Language (06 Credit Units)**

Code	Name	LH	TH	PH	CH	CU	
BSWL	3101	Sign Language I	30	00	30	45	3
BSWL	3202	Sign Language II	15	00	60	45	3

**Course Schedule**

Codes	Course Title	CU
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**Year One Semester One**

GECR	1101	Christian Beliefs	3
GECC	1101	Fundamentals of Computers & Office Applications	4
GECL	1101	Introduction to Writing Skills	3
GECH	1101	Health Principles	3
BSPC	1101	Introduction to Psychology	3
BSPC	1102	Social Psychology	3

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**First Year Semester Two**

Codes	Course Title	CU	
GECS	1202	Statistics	3
GECS	1202	Philosophy of Christian Education	3
GECV	1204	Music Appreciation	2
BADS	1204	Project Planning and Management	3
BSPC	1203	Developmental Psychology	3
BSPC	1204	Psychology and Parenthood	3
BSPC	1205	Theories and Techniques of Counselling	3

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**Second Year Semester One**

Codes	Course Title	CU	
BSPC	2106	Marriage and Family Therapy	3
BSPC	2107	Adolescent Psychology	3
BSPC	2108	Psycho-Social Issues in Counselling	3
BSPC	2109	Psychology of Gender	3
BSPC	2110	Food and Nutrition therapy	3
BSPC	2111	Group Dynamics	3
BSPC	2112	Childhood Disorders	3

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**Second Year Semester Two**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
BSPC 2213	Human Sexuality	3
BSPC 2214	Addiction Intervention	3
BSPC 2215	Counselling Special People (Attached to a field trip)	3
BSPC 2216	Grief and Trauma Counseling	3
BSPC 2217	Counseling Workshop	3
BREM 2201	Research Methods	3
		<b>18</b>

**Second Year Third Semester**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
BSFE 2301	Field Education Practicum I	3
		<b>3</b>

**Third Year Semester One**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
BSPC 3118	Community Psychology	3
BSPC 3119	HIV/AIDS Counseling	3
BSPC 3120	Child Abuse and Neglect	3
BSPC 3121	Multi-Cultural Counselling	3
BSPC 3122	Forensic Psychology	3
BSWL 3101	Sign Language I	3
BREP 3101	Research Project	3
		<b>21</b>

**Third Year Semester Two**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
BSPC 3223	Abnormal psychology(Attached to a field trip)	3
BSPC 3224	Psychological testing	3
BSPC 3225	Delinquency psychology	3
BSPC 3226	Stress Management	3
BSPC 3227	Biblical Counseling	3
BSPC 3228	Counseling Consultancy skills	3
BSWL 3202	Sign Language II	3
		<b>21</b>

**Third Year Semester Three**

<b>Codes</b>	<b>Course Title</b>	<b>CU</b>
BSFE 3302	Field Education Practicum II	3
<b>Total</b>		<b>3</b>

## DIPLOMA IN COUNSELING PSYCHOLOGY

Course Category	Credits
Major Concentration	54
Research	09
Field Education Practicum	03
General Courses	13
<b>Total</b>	<b>79</b>

### Major Courses

Code	Name	LH	TH	PH	CH	CU
DCPS 1101	Intro. to Psychology	30	30	00	45	3
DCPS 1102	Fundamentals of Communication Skills	30	00	30	45	3
DCPS 1103	Counseling skills	30	00	30	45	3
DCPS 1204	Life Skills	30	30	00	45	3
DCPS 1205	Ethics in Counseling	30	30	00	45	3
DCPS 1206	Human Behavior Growth & Dev't	30	30	00	45	3
DCPS 1207	Introduction to Social Psychology	30	30	00	45	3
DCPS 1208	Intro. to HIV/AIDS counseling	30	00	30	45	3
DCPS 2109	Multi Cultural Counseling	30	00	30	45	3
DCPS 2110	Drug & Substance Abuse Interventions	30	00	30	45	3
DCPS 2111	Career Guidance	30	00	30	45	3
DCPS 2112	Health Issues in Counseling	30	00	30	45	3
DCPS 2113	Family Counseling	30	00	30	45	3
DCPS 2214	Introduction Work place Psychology	30	00	30	45	3
DCPS 2215	Counseling Workshop	30	00	30	45	3
DCPS 2216	Counseling Special Populations	30	00	30	45	3
DCPS 2217	Theories of personality	30	30	00	45	3
DCPS 2218	Grief and Trauma Counseling	30	30	00	45	3
<b>Total</b>						<b>54</b>

### Research (6 Credit Units)

Code	Name	LH	TH	PH	CH	CU
DREM 2201	Research Methods	30	30	00	45	3
DREP 2202	Research Project	15	00	60	45	3
<b>Total</b>						<b>06</b>

### Cognate

Code	Name	LH	TH	PH	CH	CU
DDVT 1207	Intro to statistics for Social Science	30	15	00	45	3
<b>Total</b>						<b>3</b>

### Field Work (3 Credit Units)

Code	Name	LH	TH	PH	CH	CU
DSFE 2301	Field Education Practicum	00	00	90	45	3
<b>Total</b>						<b>3</b>

### General Courses (13 Credit Units)

Code	Name	LH	TH	PH	CH	CU
GEGR 1101	Christian beliefs	30	30	00	45	3

GECC	1101	Fundamentals of computers	15	30	60	60	4
GECL	1101	Introduction to writing skills	30	30	00	45	3
GECL	1101	Health Principles	30	30	00	45	3
<b>Total</b>							<b>13</b>

**Course Schedule****First Year Semester**

<b>Codes</b>		<b>Course Title</b>					<b>CU</b>
GECC	1101	Christian beliefs					3
GECC	1101	Fundamentals of computer and office Application					4
GECL	1101	Introduction to writing skills					3
GECL	1101	Health Principles					3
DCPS	1101	Introduction to psychology					3
DCPS	1102	Communication skills					3
DCPS	1103	Counseling Skills					3
<b>TOTAL</b>							<b>22</b>

**First Year Semester**

<b>Codes</b>		<b>Course Title</b>					<b>CU</b>
DCPS	1204	Life Skills					3
DCPS	1205	Ethics in counseling					3
DCPS	1206	Developmental Psychology					3
DCPS	1207	Introduction to Social Psychology					3
DCPS	1208	Introduction to HIV/AIDS Counseling					3
DDVT	1207	Introduction to statistics for Social Science					3
<b>TOTAL</b>							<b>18</b>

**Second Year Semester**

<b>Codes</b>		<b>Course Title</b>					<b>CU</b>
DCPS	2109	Multicultural Counselling					3
DCPS	2110	Drug and, substance abuse intervention					3
DCPS	2111	Career Guidance					3
DCPS	2112	Health Issues in Counseling					3
DCPS	2113	Family Counseling					3
DREM	2201	Research methods					3
<b>TOTAL</b>							<b>18</b>

**Second Year Semester**

<b>Codes</b>		<b>Course Title</b>					<b>CU</b>
DCPS	2214	Introduction to Work-place psychology					3
DCPS	2215	Counseling workshop					3
DCPS	2216	Counseling Special Populations (attached to field trip)					3
DCPS	2217	Theories of personality					3
DCPS	2218	Grief and trauma counseling					3
DREP	2202	Research project					3
<b>TOTAL</b>							<b>15</b>

**Summer**

<b>Codes</b>		<b>Course Title</b>					<b>CU</b>
DSFE	2301	Field Education Practicum					3
<b>Total</b>							<b>3</b>

## CERTIFICATE IN COUNSELING

<b>Course Category</b>	<b>Credits</b>
Concentration	63
Field Education Practicum	06
General Courses	13
<b>Total</b>	<b>81</b>

### Major Concentration Courses

Code	Name	LH	TH	PH	CH	CU
CCSG 1101	Introduction to psychology	30	30	00	45	3
CCSG 1102	Introduction to Counseling	30	30	00	45	3
CCSG 1203	Life Skills Counseling	30	30	00	45	3
CCSG 1204	Introduction to Personality Theories	30	30	00	45	3
CCSG 1205	Ethics and Counseling	30	30	00	45	3
CCSG 1206	Intro. to development psychology	30	30	00	45	3
CCSG 1207	Introduction to HIV counseling	30	00	30	45	3
CCSG 1208	Group counseling	30	00	30	45	3
CCSG 1209	Introduction to child counseling	30	00	30	45	3
CCSG 2110	Communication Skills	30	00	30	45	3
CCSG 2111	Intro. to adolescent counseling	30	00	30	45	3
CCSG 2112	Counseling Skills	30	00	30	45	3
CCSG 2113	Multi-cultural Counseling	15	00	60	45	3
CCSG 2114	Career Guidance	30	00	30	45	3
CCSG 2115	Intro. to Drug and Substance abuse	30	30	00	45	3
CCSG 2116	Counseling Special Populations	30	00	30	45	3
CCSG 2217	Introduction to Community Based interventions	30	00	30	45	3
CCSG 2218	Stress management	30	30	00	45	3
CCSG 2219	Introduction to Human sexuality	30	30	00	45	3
CCSG 2220	Intro. to Cross Cultural Counseling	30	30	00	45	3
CCSG 2221	Counseling Workshop	00	00	60	45	3
CCSG 2222	Internal Practicum	15	00	60	45	3
<b>Total</b>						<b>66</b>

### Field Work (3 Credit Units)

Code	Name	LH	TH	PH	CH	CU
CSFE 2301	Field Education Practicum	00	00	90	45	3
<b>Total</b>						<b>6</b>

### General Courses (13 Credit Units)

Code	Name	LH	TH	PH	CH	CU
GE CR 1101	Christian Beliefs	30	30	00	45	3
GE CL 1101	Introduction to Writing Skills	30	00	30	45	3
GE CC 1101	Fundamentals of computer & Office App	15	15	60	60	4
GE CH 1101	Health Principles	30	30	00	45	3
<b>Total</b>						<b>13</b>

### Semester Schedule

#### First Year Semester One

Codes	Course Title	CU
GCRE 1101	Christian beliefs	3

GECL	1101	Introduction to Writing Skills	3
GECG	1101	Fundamentals of Computers and Office App	4
GECH	1101	Health principles	3
CCSG	1101	Introduction to Psychology	3
CCSG	1102	Introduction to Counseling	3
<b>Total</b>			<b>19</b>

**First Year Semester Two**

<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
CCSG	1203	Life Skills Counseling	3
CCSG	1204	Introduction to Personality Theories	3
CCSG	1205	Introduction to Ethics in counseling	3
CCSG	1206	Introduction to Developmental Psychology	3
CCSG	1207	Introduction to HIV counseling	3
CCSG	1208	Group Counseling	3
CCSG	1209	Introduction to Child Counseling	3
<b>Total</b>			<b>21</b>

**Second Year Semester One**

<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
CCSG	2110	Communication Skills	3
CCSG	2111	Introduction to adolescent counseling	3
CCSG	2112	Counseling Skills	3
CCSG	2113	Multicultural counseling	3
CCSG	2114	Career Guidance	3
CCSG	2115	Introduction to Drug and Substance abuse	3
<b>Total</b>			<b>18</b>

**Second Year Semester Two**

<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
CCSG	2216	Counseling Special Populations(attached to field trip)	3
CCSG	2217	Introduction to Community Based Interventions	3
CCSG	2218	Stress Management	3
CCSG	2219	Introduction to Human Sexuality	3
CCSG	2220	Introduction to Cross Cultural Counseling	3
CCSG	2221	Counseling Workshop	3
CCSG	2222	Internal Practicum	3
<b>Total</b>			<b>21</b>

**Summer**

<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
CSFE	2301	Field Education Practicum	3
<b>Total</b>			<b>3</b>



## COURSE DESCRIPTIONS FOR SOCIAL WORK & COUNSELLING

### **BSWA 1101 Introduction to Social Work**

This is a foundational course for social work program focusing on the mission, purpose and objectives of social work, the social worker helping behavior, the nature of social work values and social welfare services, principles and ethics for the practice and historical development of social work practice and welfare systems, social work as a profession, social work methods and types and problems of welfare systems.

### **BSWA 1102 Introduction to Social Administration**

The course introduces students to social administration as a field of study and as a field of practice focusing on contemporary social services in Uganda. The relevance of the various contemporary social services to contemporary human needs and problems inherent in providing social services are discussed.

### **BSWA 1103 Introduction to Adult Education**

This course introduces the basic concepts, origin and importance of adult education. Topics such as the types of adult education, psychology of adult learning, literacy, lesson planning, information and communication in adult education and the role of adult education in social development will be covered.

### **BSWA 1204 Social Services Delivery Systems**

The course is an introduction to social administration as a field study and a field of practice focusing on contemporary social services and social security systems in Uganda; their relevance to contemporary human needs and the inbred problems in the provision of these services. Topics of study include: development of social services, factors influencing the distribution of social services in Uganda, the politics of social services, the laws governing the provision of social services, population distribution and provision of social services, linkage between Social services and society, culture and Social services. The social services to be covered include Education, Health, Housing, and Communication, Financial institutions, social security and Co-operatives.

### **BSWA 1205 Social Work Theory and Practice**

The course examines the core of social work knowledge and skills and application to social work purposes and activities and to the helping process. The nature of theory and historical processes of theory development in social work and the divergent social work practice models that have emerged from them will be examined. Social work practice models, theories, approaches and perspectives are covered in detail.

### **BSWA 2106 Social Work Methods, Skills and Techniques**

The theoretical underpinnings of the major practice skills, including cognitive skills, interpersonal skills, administrative skills in mobilization of client systems, skills in resource mobilization and management, and skills in institution development. The application of these to various practice settings with special reference to development social work in Uganda will be covered.

### **BSWA 2107 Social Security and Social Protection Systems**

A study of the skills for analyzing major issues in designing and managing social security systems in modernizing societies; social safety-nets existing at various levels of society, namely, at the family, community, employer and state levels; evaluation of social security systems, policies and procedures. Some case studies involving ethical problems and ethical dilemmas in practice are also discussed.

### **BSWA 2108 Ethics and Values of Social Work**

This course examines ethics and value foundations consistent with social work practice, the objectives of social work program and the service mission of Bugema University. This entails ethical values in Social Work, Social Work principles, and the professional code of ethics including National Association of Social Workers in Uganda and International Federation of Social Work. It covers the users' rights and Social Workers' duties, focusing on the codes of practice.

### **BSWA 2109 Community Based Health Care**

The course introduces learners to basic skills in community based health care. The topics covered include reproductive health, disease prevention and management, safe motherhood, post abortion care, home based care and management, family planning, water and sanitation, First Aid of common health emergencies, food and nutrition and essential drugs.

### **BSWA 2110 Community Based Rehabilitation**

The course focuses on the rehabilitation, equalization of opportunities and social integration of people especially with disabilities. The discussion will center on the implementation of community based rehabilitation through combined efforts of the disabled people themselves, their families and communities and appropriate health, education, vocational and social services.

### **BSWA 2211 Community Based Intervention Strategies**

This course is an introduction to key intervention strategies of working and improving community living conditions and common services; concepts of community participation, planning, self-determination, self-reliance and sustainability, mobilization of resources from within and outside the community, group dynamics, community assessment, participation, rapid appraisal techniques, community mapping extensions, community responsibility, monitoring and evaluation of community intervention.

### **BSWA 2212 Human Resource Management and Industrial Relations**

The course deals with human problems in the transition from rural agrarian life based on family production and consumption to industrial, urban life based on industrial organizations and production; and their impact on Social security systems. Emerging Social responses to human problems at the state, employer and community levels, Industrial relations concepts and issues are also included. The component of personnel management entails human resource planning and forecasting, job analysis and evaluation, personnel recruitment, selection and assessment, training and development; performance evaluation, compensation, benefits grievance procedure and disciplinary action.

### **BSWA 2213 Children Welfare and Protection**

Children protection and child welfare issues in families remain one of society's most challenging and complex issues. For the human service graduate, practitioners can operate in a range of practice and agency contexts where child abuse is a significant issue requiring difficult decisions focused on protective interventions. Understanding child abuse, child protection and child welfare and being able to effectively respond can be vital in dealing with a range of human service practitioner concerns. As such, this course places child protection and child welfare issues in a social and political context and highlights the impact of class, gender and race to the process of policy development and implementation. The course aims to make critical perspectives available to students of child welfare policy and practice, to assist them to understand the context in which policy and practice occur.

### **BSWA 3114 Developmental Social Work**

The course aims at understanding and assessing the prevalent frameworks, approaches and language of social development practice. It approaches development from the sociological point of view with emphasis on key sociological concepts and sociological definitions of development. Concepts of poverty, inequality, gender causes of underdevelopment and exploitative practices that lead to it, industrialization and the accompanying social change that accompany it are among the issues discussed.

Socio-economic development as a process that generates human problems; institutional capacities for responding to them; the development and their implications for the assessment of contemporary human needs and problems as well as formulation of intervention programs, the special roles of social workers in initiation and implementation of development programs; essential practice with knowledge and skills.

### **BSWA 3115 Social Policy Planning and Analysis**

It is an introduction to the nature and characteristics of social policy and planning processes, social policy theories, social policy methods, human and cultural contexts in the planning processes, perspectives of social policy, analytical framework of social policy analysis, determinants of social policy, diagnostic profile of rural and urban areas, building the policy agenda and policy formulation.

The course will examine social planning as a systematic process of developing and implementing plans and programs that promote social justice and well-being at the community level. A range of analytic and interactional tools will be reviewed, including those which assess community strengths and needs, set goals and priorities, formulate action plans, develop organizational structures, build support for implementation, and monitor and evaluate risk results. This course will also analyze major models of planning practice, the socio-political context within which practice takes place, and strategies for expanding institutional relationships and collaborative partnership aimed at a more equitable distribution of goods, services and resources.

### **BSWA 3216 Elements of Social Work Interventions**

The course provides an introduction to the elements and key concepts of the helping process, including study, assessment, formulation of intervention objects, formulation of courses of action, evaluation of intervention and termination of the helping relationship. The application of these to the different fields of social work practice and contemporary practice in Uganda will be covered.

### **BSWA 3217 Introduction to Gender Studies**

This is a study of gender roles in development and social work. Topics to be covered include gender and sex, biological cultural and psychological impacts on individual, family, work place, community and society, tools and approaches for breaking stereotypes, barriers and integrating women in development. It explains and exposes the effects of patriarchy on socio-economic and political development in society, especially the existing gender inequalities between men and women. It attempts to alter the patriarchal mind-set of students to a fairer, gender-sensitive and gender-equitable mindset.

### **BSWA 3218 Equity and Human Rights**

The course introduces the concept of human rights. It analyses the national regional and international instruments of human rights. More emphasis will be on Uganda's justice system, the police, courts of law and prisons and their effectiveness in reducing crime and racism. The concept of community policing and the role of local council in civil suits will be discussed.

### **BSWA 3219 Social Defense and Criminal Justice**

The course aims to help the students in understanding the concept of social defence and correctional services, the various types, causes and effects of crime and the consequent action of the society to safe guard the interest of the society. How to prevent different deviant and criminal behavior in society It also imparts knowledge about the increasing incidents of crime in the context of our socio-economic and cultural environment.

### **BSWA 3220 Social Sector Financing and Budgeting**

A study of methodologies, strategies and techniques of resource mobilization and management for social programs, principles of budgeting and presenting budgets, asymmetrical relationship between donors and recipients, accountability issues will be covered.

### **BSWL 3101 Sign Language I**

Language is a means of human communication with a set of rules governing it. It is important in reinforcing values and attitudes although it may lead to segregation of certain societies. Sign language will enable students to appreciate that, much as the hearing community values the spoken language, there is need to understand the non-verbal language used by the Deaf and blind persons who may use it in form of tactile communication

### **BSWL 3202 Sign Language II**

Language is a means of human communication with a set of rules governing it. It is important in reinforcing values and attitudes of any community that uses it. This second level of the course is entirely practical. It will enable students to appreciate the depth and richness of sign language as used by deaf people.

### **DSWA 1101 Foundations of Social Work**

This course is an introduction to the profession of social work and social in-terventions. It focuses on social work as a profession, the concept of social work, origins, development, principles, and fields of practice, practice methods, values and ethics.

### **DSWA 1204 Environment and Sustainable Development**

The course introduces the concepts of environment and sustainable development, components and types, issues that promote or undermine sustainable development such as ozone layer, environmental education, industry, farming, natural hazards, population growth, HIV/AIDS, and Mining. The role of social workers in sustainable development will also be covered.

### **DSWA 1206 Introduction to Community Development**

The course introduces the concept of community development and community structures, main approaches in community development, community planning, organization, mobilization and participation.

### **DSWA 2107 Introduction to Social Anthropology**

The course introduces the students to the meaning and scope of anthropology and its main branches, concepts of community, society and culture, marriage and family in primitive societies, Kinship system, Economic, political, and religion Anthropology, field work and field work traditions in anthropology.

### **DSWA 2108 Economics and Development**

The course introduces the theoretical principles of economics, application of economics in solving problems, poverty and underdevelopment, National income and standards of living, economic growth and development and strategies of national development planning.

### **DSWA 2109 Human Resource Management**

This is a study of key concepts in human resource management, purpose and nature, theories, processes, planning, development, leadership, ethical considerations and professionalism in human resource management and contribution of the course to social work.

### **DSWA 2110 Foundations of Social Policy Planning**

This is a study of the principles and basis of social policy, planning process and the nature of social policy planning. Emphasis is on the elements of pro-program development, monitoring and evaluation, the role of the state in social planning, development problems and policies.

### **DSWA 2211 Introduction to Social Work Ethics, Theory and Practice**

This course is a study of the ethical values in social work, principles and professional code of ethics. It covers the user's rights, social workers' duties and focuses on the codes of practice. It is also an overview of the theoretical foundation of social work practice, the practical skills, problem solving models and models of social work intervention as it relates to client engagement, problem assessment, data collection, goals strategies, action and evaluation to help client or client system resolve problems. Students will be required to go for a field trip as a requirement to fulfill the course subject to a typed field trip report.

### **DSWA 2212 Gender and Development**

This is a study of gender roles in development and social work. Topics to be covered include gender and sex, biological cultural and psychological impacts on individual family, work place, community and society, tools and approaches for breaking stereo types and barriers and integrating women in development it discusses significant issues related to the concerns of women and men as members of contemporary society with a focus on Uganda.

### **BSPC 1101 Introduction to Psychology**

An introduction to psychological concepts such as, learning, perception, personality, motivation, intelligence among others will be covered. It provides a foundation in the application of the scientific method to problems of human behaviors and experiences.

### **BSPC 1102 Social Psychology**

The course is an exploration of the prevailing theories and imperial method in the study of social psychology and knowledge of the concepts in this course will be applied by a counselor in addressing issues that arise in society. The course focuses on the understanding of the causes of social thought and social behavior. Important topics will include methods of social psychology, perception of self and others, self-concept, attitudes and social behavior, attitude change, conformity, compliance and obedience, stereotypes, prejudice and discrimination, group dynamics, aggression and violence.

### **BSPC 1203 Development Psychology**

An introductory study of the physiological, psychological and sociological development of man from birth through old age. It includes major theories in developmental psychology, genetic influences, social and cultural influences, language development, sensation and perception, sex roles and sex behavior, personality and potentiality in individual growth and the death and dying process.

### **BSPC 1204 Psychology and Parenthood**

The course is designed to help students appreciate the task of parenthood. The challenges of parenthood are presented in view of their psychological implications to both the parent and the child. The course examines the context of development such as: - the family, peers and school. The socialization and transition tasks that the child undergoes are also discussed. The course also discusses children's communication and fears and how children can be helped to adjust to the developmental tasks.

### **BSPC 1205 Human Sexuality**

This course analyzes factors that influences peoples' sex and sexuality issues, explores and reflects on peoples' attitudes, values and beliefs toward various sexual practices. Psychosexual differences between male and female and their implications to counseling, sexual orientations, variations and dysfunctions of performance will also be covered and their implications in counseling to help clients with such challenges. Biblical counsels on sexuality will also be covered for students to have a biblical view and guideline in that area for their practice.

### **BSPC 2106 Marriage and Family Therapy**

This course introduces students to family and marriage, their types, the factors that influence the family formation and stability, factors that influence the selection of a partner, family member's interactions and relations are explored from a systems or a structural approach. The media and strategies used to counsel families are also dealt with. Family conflicts, roles and skills of the counselor together with the therapies used are also exhibited.

### **BSPC 2107 Adolescent Psychology**

The course covers the theories about developmental processes of an adolescent in the physical, social-emotional, cognitive and moral spheres. The nature and characteristics of periods, transitions that they go through and the psychological and behavioral effects on peers, family and society will be studied. How all these interplay in an adolescent and the implications and counseling interventions will be discussed.

### **BSPC 2108: Psychosocial Issues in Counselling**

This course focuses on the day-to-day issues that interfere with normal functioning of human beings in the social world. Specific issues to be addressed include; parenting, interpersonal conflict resolutions, self-management, communication, transitions for example, marriage, menopause, midlife crisis and others. Students will be equipped with skills from psychosocial theories and models to help people work on their challenges.

### **BSPC 2109 Psychology of Gender**

This course focuses on gender issues of men, women and gender as reflected in societal ties. This course is designed to broaden the students' awareness of the psychological theories and research regarding the differences and similarities between men and women and we will discuss how psychology can help transcend the limitations imposed by traditional gender, stereotyping and roles connecting theory and research to the challenges related to gender in the contemporary society. The course attempts to understand the significance of sex, gender and sexuality in controlling and ordering the structure of society and how sex and gender function as distinguishing categories of hierarchy and privilege in society.

### **BSPC 2110 Food and Nutrition Therapy**

This is an advanced course focusing on the use of nutrition therapy in the management of health and disease. Specific nutrition intervention including diet, vitamins, minerals,



botanicals, essential fatty acids and amino acids are explored for a wide variety of diseases commonly encountered in clinical practice. The biochemistry of each intervention is discussed for a full understanding of how to integrate nutrition therapy into patient care.

### **BSPC 2111 Group Dynamics**

The course introduces students to meaning of leadership, characteristics and qualities of a leader, types, theories, difference between leaders and managers. Social psychologist study the various influences that operate in the simplest of groups – one person in the presence of another and those that operate in more complex groups, such as families teams and committees. It is therefore crucial to understand the variations that take place in groups and groupings, which later determine and greatly influence human performance. Equipped with relevant skills the students will then take a lead in guiding the society

### **BSPC 2112 Counselling Special People**

The course looks at the dynamics of counseling people with special needs such as the terminally ill, those in the near death situation, the mentally challenged, the sick, minority groups, refugees, the aged, migrants or others who have special needs. Special approaches and therapies like the play therapy, art therapy among others.

### **BSPC 2213 Theories and Techniques of Counselling**

The course introduces the counselor to the theoretical basis, principles, skills, techniques, ethical issues and behavior of the counselor. Counseling strategies and interviewing techniques will be discussed.

### **BSPC 2214 Addiction Intervention**

This course introduces the student to the need, organization and administration of guidance services. It points out to the student the effectiveness of counseling services as an intervention. The symptoms, stages and treatment of different types of addictions, counseling intervention strategies will be covered.

### **BSPC 2215 Childhood Disorders**

This course focuses at malfunctions that are first diagnosed in infancy, child hood or adolescence. Many of these medical conditions involving disturbances in the normal functioning of the mind and body of a child will include: mental retardation, Autism, ADD, ODD, eating disorders, learning disorders, and other syndromes as identified in the DSM-IV manual. Since some of these disorders present and are better diagnosed in adolescence and adulthood, the student will be equipped with intervention strategies to mitigate their impact in children.

### **BSPC 2216 Grief And Trauma Counselling**

The course introduces the counselling students to the meaning, causes and forms of grief, mourning, death, trauma and bereavement the grieving process/stages of grieving, the unique features of grief in both adults and children are handled. The course will discuss the key skills and knowledge related to grief and trauma, the different types of grief conditions and the learner will build skills for helping people with grief issues like pathological grief.

### **BSPC 2217 Counselling Workshop**

This course will equip students with the practical skills and experience. The application of different theories, skills and techniques of psychodynamic, humanistic, cognitive and behavioral aspects in intervening at both individual and group counseling will be

covered. The course will include recorded sessions and TRIADS whereby feedback of the counseling session will be given by the supervisor.

### **BSPC 3118 Community Psychology**

This course will expose students to the contribution of psychology to social and community change. Students are to be equipped with knowledge and skills necessary for dealing with individual psychological problems as well as offer community based mental health services. The students will understand how health problems are generated within the community, how to deal with them, how to anticipate problems and prevent them, how to work with other mental health professionals.

### **BSPC 3119 HIV AND AIDS Counselling**

This course unit covers counseling like testing services, current models like DSD model, antiretroviral treatment (ARVs) treatment, Individual, Family and couple counseling for both the affected and infected. There is emphasis on holistic care and positive living of individuals with HIV/AIDS.

### **BSPC 3120 Child Abuse and Neglect**

This course covers child abuse and neglect concepts, the different types and symptoms of abuse and how these are differentiated from neglect. Causes and effects of abuse and neglect on the child's physical, social and psychological development will be studied. Preventive measures, community and counselors interventions will be covered.

### **BSPC 3121 Cross Cultural Counselling**

The course provides an examination of cultural and ethnic variables in human nature and their effects on the counselling process. Specific focus will be placed on the nature and function of culture, culture variables in the context of human experience, universal and cultural specific aspects of the counselling process, and barriers to effective cross cultural counselling, specific ethnic and cultural considerations and methods of intellectual training with specific emphasis on the principles in multicultural approaches to counseling and theories of helping multiracial clients through cross cultural counseling.

### **BSPC 3122 Forensic Psychology**

This course is designed for those interested in understanding or pursuing a career in forensic/correctional psychology. It covers areas related to Criminal Psychology, Police Psychology, Victimology and Victim Services, Psychology and the courts and Correctional Psychology.

### **BSPC 3223 Abnormal Psychology**

This course is a study of abnormal psychology, its development and application of psychology principles and approaches in describing, explaining and controlling abnormal behavior. Emphasis is given to models of psychopathology, causes of abnormal behavior, classification and assessment types of mental behavioral disorders and their symptoms and appropriate interventions or treatment programs

### **BSPC 3224 Psychological Testing**

This is a study of Psychological tests used in counseling, their natures and types. How they are administered and evaluated. The ethical considerations, uses, limitations and test standardization will be examined and applied. The importance of Psychological tests in the field of counseling will be considered.



### **BSPC 3225 Delinquency Psychology**

This course provides students with a fundamental grasp of the delinquency psychology. This course analyses behavior of a person to identify the deviant or delinquent act as a behavior. Emphasis is on the understanding, treatment, and prevention of problems of the mentally, physically and emotionally exceptional child.

### **BSPC 3227 Biblical Counselling**

This course explores the importance/significance of scriptures in resolving human conflicts, impasses, dilemmas and all issues that bring people for counseling. The role of the Bible or the word of God as a tool for counseling is the main focus and the Holy Scriptures will be used as a reference tool/guideline for Christian counselling and psychological health. This course also lays a foundation for understanding counselling as a vital ministry in the local church for all people both church members and non church members undergoing any form of challenges.

### **BSPC 3228 Counselling Consultancy Skills**

This course takes the students through the practical aspects of counseling practice for example responding to bids, writing proposals both technical and financial, doing needs assessment, counseling projects along with insights into financial planning and management.

### **BSPC 3226 Stress Management**

This course introduces the students to the meaning of stress, types, causes, effects and its management which includes techniques intended to equip a person with effective coping mechanisms. It also looks at the dimensions of stress and stress in various settings.

### **DPCS 1101 Introduction to Psychology**

This is an introductory course in Psychology. It focuses on the nature of Psychology, Definition, aims and goals of psychology, Schools of thought in psychology, Branches of Psychology, Biological bases of behavior, the brain and the central nervous system, and the Psychology of personality.

### **DPCS 1102 Fundamentals of Communication Skills**

This course is an introductory communication course. It is designed to expose students to the theories, skills, and strategies needed to become effective communicators in academic and professional settings. It explains the major theories of human communication and persuasion in interpersonal, small group, and public communication contexts. The course also focuses on effective communication skills and strategies for writing reports and CV's and for preparing and delivering effective presentations.

### **DCPS 1103 Counselling Skills**

This is an introductory course to the psychological processes involved in counseling. Emphasis is on micro and major skills used in counseling, the nature and dimension of counseling, the counseling process, purpose, initial interview guidelines, general situations that demand counseling, management, diagnostic, questioning and communication skills will be handled.

### **DCPS 1204 Life Skills**

This course equips students with life skills and attitudes needed by an individual to operate effectively. These include personal and social skills required to function confidently and competently with themselves and others in society, develop abilities to deal with day to day challenges and demands, interpersonal relationships, such as empathy, peer resistance, self-management, cleanliness, and discipline will be discussed.

### **DCPS 1205 Ethics In Counselling**

The course unit introduces students to professional ethical issues and dilemmas handled in counseling practice. Students will learn and evaluate the philosophical bases for ethical practice and the underlying principles that inform core ethical codes and frameworks. Codes of ethics will be discussed in relation to practice issues, and understandings and theories of boundaries will be explored. Students will examine these topics by drawing on their own professional and personal experience, considering and debating hypothetical ethical dilemmas, examining the impact of their personal values and accessing recent research literature.

### **DCPS 1206 Human Behaviour, Growth And Development**

The course unit will address physiological, psychological and socio-emotional and behavioral development of an individual from conception, birth through old age. It includes major theories in developmental psychology.

### **DCPS 1207 Principles of Social Psychology**

This course unit will expose students to the components, causes, history and methodology of social psychology and how it influences thought and behavior. The students will further be introduced to the meaning and practical application of social psychology, construction of self and society, social cognition, interpersonal relationships, the power of social influence, attitudes, persuasions, locus of control, conflict, aggression and, prejudice.

### **DCPS 1208 Introduction to HIV/AIDS Counseling**

The course will expose the students to the meaning, causes, effects modes of transmission, components of HIV counseling like testing support systems, antiretroviral treatment and HIV/AIDS in both the affected and infected are handled. This course prepares students to counsel both families and couples. Students are trained in systems theory and the systematic perspective of how to view, interpret and intervene with problems associated with marriage and family life.

### **DCPS 2214 Introduction to Work Place Psychology**

The course introduces students to basic concepts in organizational and industrial psychology, its major fields, history, job analysis and evaluation, employee selection, recruitment and interviewing, motivation, communication leadership, organizational development.

### **DCPS 2110 Drug and Substance Abuse Intervention**

The course unit will exposed students to the types, forms, causes, symptoms, signs and effects of drug abuse and intervention procedures, addresses drugs, alcohol and resultant behavior in the addiction process. The course exposes the students to routes of drug administration, stages addiction, tolerance and dependence, ways of prevention and treatment procedures are expired.

### **DCPS 2111 Career Guidance**

The career exploration and planning course deals with the understanding of different careers in view of the individual's interests, aptitude, career, information and ability. This course covers the various career exploration and how to choose and maintain career, counseling for career development. It is also designed to meet educational requirements all core competences and the career development for the educational and vocational guidance careers.

### **DCPS 2112 Loss and Grief Counseling**

This course unit will introduce the students to the different forms, types, cause, effects, signs and symptoms of loss and grief. The learner will build skills for helping people with issues like pathological grief. The students will be equipped with the different interventions and psychotherapeutic treatment modalities of loss and grief.

### **DCPS 2113 Counseling Workshop**

This course unit is a practical experience for counseling practitioners to apply various psychotherapeutic counseling skills and techniques through counseling with peers, site and off site and assigned counselees. The students will be supervised by professional counselors as supervisors and have videotaped or recorded sessions that portray the counseling process. Feedback and critiques on counseling sessions will be given to students on both individual and group levels.

### **DCPS 2109 Multi Cultural Counseling**

The purpose of this course is to provide students an opportunity to gain multicultural competency as professional counselors. Students will be asked to reflect on internalized messages regarding other groups and challenged to make new decisions in an effort to bring behaviors and attitudes into congruence with professional standards. While we cannot be held accountable for messages embedded in our past, we can and must be held accountable for current and future responses to events in contemporary living and practice. Students will be exposed to current issues in broad diversity constructs: culture, national origin, language, physical appearance and ability, sexual orientation, spirituality, SES, etc.

### **DCPS 2215 Family Counselling**

This is an introduction to family counseling/therapy and principles. Goals include an initial examination and comparison of various theories currently employed in the field with an emphasis on interview techniques. Subject areas to be covered include the various schools of family counseling/therapy, stress points in the family cycle, along with current trends and issues in marriage, coping strategies and family counseling procedures.

### **DCPS 2216 Counseling Special Populations**

This course unit provides professional application to the theoretical and practical question and discourse on vulnerable people. The course examines the generic theoretical concepts on intervening in special populations. The identification and handling of issues common in special populations are explored and common issues exhaustively explored. The course will expose students to the cause of vulnerability among the identified categories such as gifted children, pregnant women, disabled, addicts, adolescents, HIV/AIDS patients and the elderly.

### **DCPS 2217 Theories of Personality**

The course introduces a student to the study of personality in the context of major theoretical theories of personality and personality dynamics. It will expose students to a variety of personality theories, their history and application. Will explain human behaviors, motivations, personality development, self-knowledge unconscious process, psychological adjustments and the relationship between individuals and society.

### **DSRE 2112 Health Issues in Counselling**

The course unit will expose learners to health issues and their impact on the health care providers, caretakers and the patients themselves. Issues like hospice care and management, Exposure to health risks by both care providers and caretakers.

### **CCSG 1101 Introduction to Psychology**

An introduction to psychological concepts such as, learning, perception, personality, motivation, intelligence among others will be covered. It provides a foundation in the application of the scientific method to problems of human behaviors and experiences.

### **CCSG 1102 Introduction to Counseling**

This course is an introduction to basic skills which are required in order to carry out effective counselling. Skills analysis will be practiced for effective performance of a particular counselling session. The focus will be on communication, diagnostic, motivational and management skills.

### **CCSG 1203 Life Skills Counseling**

The Life Skills counseling provides a structured means of helping disadvantaged groups acquire the necessary experience, knowledge, and skill to cope effectively with the psychosocial aspects of personal development, parenthood, and citizenship. Life Skills counseling integrates counseling and teaching functions as it facilitates problem-solving through inductive and deductive modes of inquiry and application.

### **CCSG 1204 Introduction to Personality Theories**

The course will involve an introduction to the most important theories on personality to date. The existence of a variety of viewpoints indicates that there is no clear and integrated theory that dominates the field. However, each of these theories can be evaluated according to conventional scientific criteria, because all of them claim to be scientific in nature. Therefore, besides giving you an appreciation of the ways in which theorists have conceptualized human personality, the major objective of the course is to place you in a position to evaluate these theories and to decide which ones have merit and are worthy of continuing scientific investigations.

### **CCSG 1205 Introduction to Ethics in Counseling**

This course is intended to equip the students with the knowledge about the ethical problems of a counselor, categories of ethical problems, the ethical behavior of the counsellor and the code of ethics for counselling. Focus will be on issues of informed consent, confidentiality professional relationships between a counselor and counselee and practice settings.

### **CCSG 1206 Introduction to Developmental Psychology**

The course explores the intra individual and inters individual changes in behavior as an individual grows. It covers developmental changes in the life span from conception to death, thus giving a complete picture of growth and decline; it includes the characteristics, adjustments and hazards of different stages in the life span.

### **CCSG 1207 Introduction to HIV Counseling**

This is an introductory course to HIV/AIDS disease and its impact on the infected and affected people. It gives the student information about the mode of transmission, myths and prevention of HIV infection and disease. Also prepares students to counsel people living with HIV/AIDS and their support systems.

### **CCSG 1208 Introduction to Career Guidance**

This course covers the various career theories of how to choose and maintain career and how to counsel for career development. It is designed to meet educational requirements by guiding young people in the different job occupations and the skills and talents required. It aims at equipping the learner with all core competences and techniques in career guidance and development for the educational and vocational careers.

### **CCSG 1209 Introduction to Child Counseling**

The course is designed to equip students with skills in child counseling in our daily life. The course will specifically focus on working with the arts and with play therapies. This will include practical sessions in art imagery, sand tray work, as well as exploring the value of therapeutic story work. Specific therapy goals will be customized to meet the needs of the children and their families. The overall goal of our therapy program is to alleviate symptoms of distress; improve the child's social and emotional welfare; increase their use of effective communication skills; and strengthen family, community, and peer relationships.

### **CCSG 2110 Introduction to Communication Skills**

At the theoretical level, the course unit is designed to assist the student learn the theories guiding communication in general and in-forming language communication in particular. In addition, the student will be exposed to various uniting functions as opportunities for further insight development into the dynamics of the art of practice using day to day situations.

### **CCSG 2111 Introduction to Adolescent Counseling**

This course is an overview of the adolescent's physical growth and its psychological effects on peer, family and society. Specific topics include the role of an adolescent, growth, tasks, adolescent behavior and society's expectation. The study of the nature of the development process, periods, transitions, and issues related to adolescence, Decalogue for parents of adolescent children and the stages of group development will be included.

### **CCSG 2112 Counseling Skills**

This course is an introduction to basic skills which are required in order to carry out effective counseling. Skills analysis will be practiced for effective performance of a particular counselling session. The focus will be on communication, diagnostic, motivational and management skills.

### **CCSG 2222 Internal Practicum**

This course will equip students with the practical skills and experience. Students will be attached to pre identified relevant institutions of learning for example Hostels within the University and nearby Primary Schools for practical experience. They shall have a weekly review and mentorship with the lecturer.

### **CCSG 2114 Group Counseling**

This course examines various aspects of group dynamics. The topics to be covered will include characteristics and traits of groups, primary and secondary groups, groups for children, adult and the elderly people. It will also cover the interaction and forces in intra-group and inter-group. In addition, it will look at the group interactions, interdependence and behavior.

### **CCSG 2115 Introduction to Drug and Substance Abuse**

The course unit introduces students to the types, forms, causes, symptoms, signs and effects of the different types of drugs and substances commonly abused. The course exposes the students to routes of drug administration, stages addiction, tolerance and dependence, ways of prevention and treatment procedures.

### **CCSG 2216 Introduction to Community Based Interventions**

This course is an introduction to key intervention strategies and methodologies of working and improving community living conditions. The course will specifically focus on common services; concepts of community participation, planning, and self-determination. Self-reliance, and sustainability, mobilization of resources from within and outside the community as well as the different group dynamics will also be looked at with special emphasis on the skills needed by community counselor to accomplish the above

### **CCSG 2217 Counseling Special Populations**

The course looks at the dynamics of counseling people with special needs such as the terminally ill, those in the near death situation, the mentally challenged, the sick, minority groups, refugees, the aged, migrants or others who have special needs. Special approaches and therapies like the play therapy, art therapy among others.

### **CCSG 2218 Stress Management**

This course introduces the students to the meaning of stress, types, causes, effects and its management which includes techniques intended to equip a person with effective coping mechanisms. It also looks at the dimensions of stress and stress in various settings.

### **CCSG 2219 Introduction to Human Sexuality**

The course explores the aspect of human sexuality across the lifespan. The functional and dysfunctional sexuality is explored. This includes the developmental aspects of sexuality, deviations explored. Biblical counsels on sexuality will also be covered.

### **CCSG 2220 Introduction to Cross Cultural Counseling**

This is an introduction to culture, race, ethnicity, cultural diversity and Multicultural Counseling. To provide an understanding of the origins, concepts values and generalization of the ideas and principles studied in multicultural approaches to counseling.

### **CCSG 2221 Counseling Workshop**

This course will equip students with the practical skills and experience. The application of different theories, skills and techniques of psychodynamic, humanistic, cognitive and behavioral aspects in intervening at both individual and group counseling will be covered. The course will include recorded sessions and TRIADS whereby feedback of the counseling session will be given by the supervisor to prepare the students to become professional counselors.

## School of Social Sciences List Lectures

**Ag. Dean; Tibenda Keith**, PhD (Leadership, in progress) candidate (AUA, Kenya), MSA (Int'l Dev.) (Andrews, US), BBA (UEAB, Kenya).

### Department Of Development Studies

**Head; Busuulwa Joshua R.**, MA (Dev. Studies), BA (Dev. Studies) (Bugema).

#### Full-time Faculty

**Basemera Collins**, MA (Dev. Stud.) (Bugema), BA (Ed) (Makerere), Dip (Ed) (Masindi NTC).

**Bwambale Lemuel**, MA (Dev. Stud.) (Nkumba), BA(Ed) (UCU).

**Keino Geoffrey**, MA (Rural Sociology, Comm. Dev. & Extension ), BA (Sociol. & Econ.) (Agra, India).

**Nsubuga N. Esther**, MA (Dev. Stud.) (Bugema), BA (Econ.) (Goa, India).

**Otieno O. Ronald**, MA (Dev. Studies), BA (Dev. Studies), Dipl (Dev. Studies) (Bugema).

**Paul Mukasa, PhD** (Rural Dev (Central Luzon State University, Philippines), MA (Rel) (Andrews, US), BA (Theol), (Andrews, US, Baraton Campus, Kenya).

#### Contract/Adjuncts

**Akum Ann Martin**, MA (Dev. Stud.) (Bugema), PGD (Community Based Intervention)

**Kabula Elidad**, MA (Journal.), BA (Eng. Lang. & Lit), Dip (Eng. Lang. and Lit.) (Burundi).

**Kamanzi Samuel**, MA (Media & Com. Studies) (Aarhus, Denmark), MA (Conflict Mgt) (Peace-UN), BA (Mass Com.) (Zambia).

**Kansiime Sarah**, M. Public Admin. (Cavendish), B. Public Admin. & Mgt (Nkumba).

**Katusiime Jessica**, M. Public Admin. (Makerere), PGD (Hum. Res. Mgt (UMI), BA (Social Sci.) (Makerere).

**Kavuma M. Menes**, MA (Com. Stud. (Nairobi), PGD (Proc. & Sup. Chain Mgt) (UMI), PGD (Dev. Studies) (Mbarara), B. Mass Com. (Makerere).

**Kizito Siraje**, M. Peace & Conflict Stud., (Makerere), BSc (Mass Com) (Islamic University in Uganda), Dip (Ed) (Kyambogo ITE).

**Masereka Robinson**, MA (Dev. Studies), BA (Dev. Stud.) (Bugema).

**Ntono Ruth**, MA (Dev. Studies), BA (Dev. Studies) (Bugema).

**Nkayivu Fred**, MBA, B. Telecom. Engineering (Kyambogo).

**Nsanzabaganwa Theogene**, MBA (Devt Stud.), BTh (Bugema).

**Nuwamanya Richard**, M. Social Sci. (Birmingham, UK), BA (Political Sci. and Public Admin), (Makerere).

**Sibanda R. Glory**, MA (Dev. Studies), BA (Dev. Studies) (Bugema).

**Zawedde Rhema**, MA (Public Relations &Media Mgt) (Cavendish), BA (Mass Com., Journ. & Creative Writing) (Namasagali).



## **Department of Social Work & Social Administration**

**Head; Nsubuga N. Esther**, MA (Dev Studies) (Bugema), PGD (Counsel. Psych) (UNIK), BA (Econ) (Goa University, India), (Cert. Guid. & Counsel) (Makerere).

### **Full-time Faculty**

**Oloo N. Steven**, PhD (Disaster Mgt & Hum. Assist.) (Masinde Muliro), MA (Dev. Studies), BA (Social Work & Social Admin.) (Bugema).

**Emwaku Jimmy**, DMin. (Leadership & Admin.) (AUA, Kenya), MA (Pastoral Min.) (Andrews, US - Solusi Campus, Zimbabwe), BTh (Bugema).

**Kajiru E. Penuel**, MSc (Counsel. Psych.) (Bugema), BA (Ed) (Bugema), Dip. Ed (Klerruu TC).

**Kankindi Priscille**, MA (Dev Studies), BA (Social Work & Social Admin.) (Bugema)

**Katamba Enoch**, MA (Dev Studies), BA (Social Work & Social Admin.) (Bugema).

**Kayanga Miriam**, MSc (Counsel. Psychol), BA (Social Work & Social Admin.) (Bugema).

**Kirya Samuel**, MSc (Counsel. Psych.) (Bugema), PGDE, BSc (Biol.) (UEAB, Kenya).

**Mukasa Grace**, MSc (Ed) (Guidance & Counsel), BSc (Textile & Garment).

**Nakato Victor**, MA Ed (Psychology) (Makerere), BA Ed. (Makerere)

**Nkurabanka Privatsun**, MA (Social Work) (UCU), BA (Social Work and Social Admin) (Bugema).

**Specioza Nyanzi**, MSc (Counsel. Psych.), BSc (Psychol. & Counsel.) (Bugema).

### **Contract/Adjuncts**

**Agaba, Hudson**, MA (Social Work) (UCU), BA (Guidance & Counsel.) (Bishop Stuart).

**Emily Kyarikunda**, MA (Ethics & Public Mgt), BA (Social Sci.) (Makerere).

**Grace Kentaro**, MA (Gender Studies), BA (Social Sci.) (Makerere).

**Kiyingi P. Frank**, PhD (Counsel.) (Nkumba), MA (Counsel.) (Nkumba), BA (Social Sci.) (Makerere).

**Mastula Namugenyi**, MA (Counsel.), BA (Ed).

**Nambi Mariam**, MEd (Policy Plan. and Mgt), BA (Ed) (Special Needs) (Kyambogo).

**Patricia Anite**, MA (Counsel.) (UCU), BA (Ed) (Kyambogo University).

**Prossy Namansa**, MA (Gender Studies), BA (Ed) (Makerere).

**Ssekinkuse Julius**, MPH, PGD (Project Plan. and Mgt) (Bugema), BSc (Guidance & Counsel.) (Kyambogo).



# **SCHOOL OF THEOLOGY AND RELIGIOUS STUDIES (SOTR)**

## SCHOOL OF THEOLOGY AND RELIGIOUS STUDIES

**Dean: Prof. Gebre Worancha;** PhD (Dev. Education) (CLSU, Philippines), DPT (Mission & Evang.) (Adventist International Institute of Advanced Stud., Philippines), MAPTh (Mission and Evang.), (Adventist International Institute of Advanced studies, Philippines), (BA (Theol.), BSc (Ed) (UEAB, Kenya).

### Mission Statement

The School of Theology and Religious Studies exists to provide spiritual, academic, physical and social development in preparing pastors, evangelists, teachers, counsellors, chaplains, leaders, and community development promoters for excellence in service of the Seventh-day Adventist Church and the world community. Areas of emphasis include the following: proclamation of the three angels' message (Revelation 14:6-12), biblical based education, research and publication, and field practical skills.

### Philosophy

The School of Theology and Religious Studies believes that God is the Creator and Sustainer of the universe. In love He sent His Son Jesus Christ to atone for the sins of humanity. The same God has commissioned us to advance His work by pointing fallen human beings to the great sacrifice at Calvary in preparation for the return of our Lord and Saviour Jesus Christ.

### Vision

Spurred by the fast approaching climax of history by the Second Advent of Jesus Christ, we envision the school becoming a leading centre of theological education, training students physically, mentally, spiritually, and socially.

### Goal

To prepare ministers of the gospel for effectiveness and efficiency in teaching, preaching, leadership and professional competence within the Seventh-day Adventist Church and the world at large.

### Objectives

- To equip students with the necessary skills for gospel ministry within the context of the Seventh-day Adventist Church.
- To furnish students with the basic tools of interpreting Scripture within the historical-grammatical context.
- To establish a foundation for further theological studies.
- To shape theological education within the African context.

### Departments

The School of Theology and Religious Studies has two departments that offer diversified programs of study namely the Department of Theology and the Department of Religious Studies.

The Department of Theology offers a Bachelor of Theology while the Department of Religious Studies offers a Bachelor of Arts in Religious Studies (BARS) with the following major areas of emphasis:

- Chaplaincy
- Evangelism and Church growth
- Development Ministry
- Urban Ministry

## DEPARTMENT OF THEOLOGY

Head of Department: **Javan K. Harelimana**; Doctor of Ministry, Philippine Christian University, Dasmarias, Cavite, Philippines; Master of Ministry, Adventist International Institute of Advanced Studies, Silang, Cavite, Philippines; Bachelor of Theology, Bugema University, Kampala, Uganda.

### BACHELOR OF THEOLOGY (BTH)

#### Brief Description

The course equips students with the necessary skills for gospel ministry. Based on the foundation and propositions of Seventh-day Adventist Church, the course furnishes students with basic tools of interpreting Scripture within the historical grammatical context. Bachelor of Theology (B. Th) is the basic entrance qualification for ministry in the Seventh-day Adventist Church. Its content reflects the Church's conviction that successful ministry must be based on a deep knowledge of Scripture, an understanding of the Church's theology, history and mission, and competence in pastoral skills relevant to the needs of the contemporary world. It provides a basis for graduate study in the biblical, pastoral and theological areas.

#### Duration of the Programme

For a student to graduate with the Degree of Bachelor of Theology, he/she must complete a minimum of 157 credits. These include general education courses, biblical languages, biblical studies, professional and pastoral studies, theological and philosophical studies, guided research work, and supervised Industrial Attachment during the months of June and July. This is expected to be completed in a minimum of three (3) years. However, students who have passed through educational systems that do not have A-level or its equivalence must take a total of 199 credit hours completed in a minimum period of four (4) years. The In - Service pastors will complete their studies within a period of four or five years depending on educational system of the countries of their origin.

#### Graduation Requirements for Bachelor of Theology (BTH)

Course Category	Credits
Biblical Languages	18
Biblical Studies	33
Professional and Pastoral Studies	39
Theological and Philosophical Studies	33
Research	06
Cognate	06
General Education Courses	16
Ministerial Placements	06
<b>Totals</b>	<b>157</b>

#### Languages (18crds)

Code	Name	LH	TH	PH	CH	CU
BIBL 1101	Elementary Greek I	30	15	0	45	3
BIBL 1202	Elementary Greek II	30	15	0	45	3
BIBL 2103	Intermediate Greek	30	15	0	45	3
BIBL 2204	Biblical Hebrew I	30	15	0	45	3
BIBL 3105	Biblical Hebrew II	30	15	0	45	3
BIBL 3206	Biblical Exegesis	30	15	0	45	3

**Biblical Studies (33Credits)**

Code	Name	LH	TH	PH	CH	CU
RELB 1201	Bible Backgrounds and Arch.	30	15	0	45	3
RELB 2102	Culture and Denominational stud.	30	15	0	45	3
RELB 1203	Pentateuch and Hexateuch	30	15	0	45	3
RELB 2104	Spiritual Formation	30	15	0	45	3
RELB 2205	Studies in Gospels	30	15	0	45	3
RELB 2206	Psalms & Wisdom Writings	30	15	0	45	3
RELB 3107	Biblical Apocalypse I	30	15	0	45	3
RELB 3108	Acts and Epistles I	30	15	0	45	3
RELB 3209	Biblical Apocalypse II	30	15	0	45	3
RELB 3210	Acts and Epistles II	30	15	0	45	3
RELB 3211	Prophets of Israel	30	15	0	45	3
<b>Totals</b>						<b>33</b>

**Professional and Pastoral Studies (39crds)**

Code	Name	LH	TH	PH	CH	CU
BDAC 3301	Denominational Accounting	30	15	0	45	3
RELP 1101	Pastoral Ministry	30	15	0	45	3
RELP 2102	Music and Dynamics of Worship	30	15	0	45	3
RELP 1103	Christian Witnessing & Lit Evang.	30	15	0	45	3
RELP 2104	Stewardship and Self-Reliance	30	15	0	45	3
RELP 2105	Marriage and Family	30	15	0	45	3
RELP 2106	Foundations of Youth Ministry	30	15	0	45	3
RELP 2207	Principles of Church Growth & Church Plant	30	15	0	45	3
RELP 2108	Homiletics	30	15	0	45	3
RELP 2209	Ministry for Specialized Needs	30	15	0	45	3
RELP 3110	Leadership and Church Admin.	30	15	0	45	3
RELP 3211	Theory and Practice of Publ. Evan	30	15	0	45	3
RELP 3212	Pastoral Care and Counselling	30	15	0	45	3

**Theological and Philosophical Studies**

Code	Name	LH	TH	PH	CH	CU
RELT 1201	Comparative Religions	30	15	0	45	3
RELT 1202	History of the Christian Church	30	15	0	45	3
RELT 2203	African Theological Thought	30	15	0	45	3
RELT 2204	Studies in Bible and Quran	30	15	0	45	3
RELT 3305	SDA History	30	15	0	45	3
RELT 2306	Christian Ethics	30	15	0	45	3
RELT 2207	Ministry & Message of E G. White	30	15	0	45	3
RELT 3208	Church and Gender Issues	30	15	0	45	3
RELT 3109	SDA Doctrines	30	15	0	45	3
RELT 3210	Christian Theology	30	15	0	45	3
RELT 3111	Modern Ecumenical Movement	30	15	0	45	3
<b>Total</b>						<b>33</b>

**Ministerial Placement (06)**

Code	Name	LH	TH	PH	CH	CU
RELP 1201	Ministerial Placement I	00	00	90	45	3
RELP 3302	Ministerial Placement II	00	00	90	45	3

**Research (6 Credits)**

Code	Name	LH	TH	PH	CH	CU
RELR 2201	Religious Research Methods	30	30	00	45	3
RELR 3102	Research Project	00	30	30	45	3

**Cognate (6 Credits)**

Code	Name	LH	TH	PH	CH	CU
REEV 1106	Small Group Dynamics	30	15	0	45	3
RECH 1110	Issues in Drug Abuse	30	15	0	45	3
GECC 1101	Fundamentals of Computer and Office Application	45	00	30	60	4
GECH 1101	Health Principles	30	60	00	45	3
GECL 1101	Introduction to Writing Skills	30	60	00	45	3
GECS 1201	Issues in Science and Religion	30	00	30	45	3
GECA 1201	Philosophy of Christian Education	30	30	00	45	3
<b>Totals</b>						<b>16</b>

**Semester Schedule****First Year Semester 1**

Codes	Course Title	CU
BIBL 1101	Elementary Greek I	3
GECH 1101	Health Principles	3
GECC 1101	Fundamentals of Computer and Office Application	4
GECL 1101	Introduction to Writing Skills	3
RELP 1103	Christian Witnessing and Literature Evangelism	3
RELP 1101	Pastoral Ministry	3
REEV 1106	Small Group Dynamics	3
RECH 1110	Issues in Drug Abuse	3
<b>Total</b>		<b>25</b>

**First Year Semester 2**

Codes	Course Title	CU
BIBL 1202	Elementary Greek II	3
RELB 1203	Pentateuch and Hexateuch	3
RELT 1202	History of the Christian Church	3
RELR 1201	Religious Research Methods	3
RELB 1201	Biblical Backgrounds and Archaeology	3
RELT 1201	Comparative Religions	3
GECA 1201	Issues in Science and Religion	3
GECA 1201	Philosophy of Christian Education	3
<b>Total</b>		<b>24</b>

**First Year Semester 3 (summer)**

Codes	Course Title	CU
RELP 1201	Ministerial Placement I	3
<b>Total</b>		<b>3</b>

**Second Year Semester 1**

Codes	Course Title	CU
BIBL 2103	Intermediate Greek	3
RELP 2105	Marriage and Family	3
RELP 2106	Foundations of Youth Ministry	3

RELP	2108	Homiletics	3
RELB	2102	Culture and Denominational Studies	3
RELB	2104	Spiritual Formation	3
RELP	2104	Stewardship and Self-Reliance	3
RELP	2102	Music and Dynamics of Worship	3
<b>Total</b>			<b>24</b>

**Second Year Semester 1**

<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
BIBL	2204	Biblical Hebrew I	3
RELB	2205	Studies in Gospels	3
RELB	2206	Psalms & Wisdom Writings	3
RELT	2203	African Theological Thought	3
RELT	2207	Ministry and Messages of Ellen G. White	3
RELP	2207	Principles of Church Growth & Church Planting	3
RELT	2204	Studies in Bible and Quran	3
RELP	2209	Ministry for Specialized Needs	3
<b>Total</b>			<b>24</b>

**Third Year Semester 1**

<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
RELT	3106	Christian Ethics	3
RELP	3110	Leadership and Church Administration	3
BIBL	3105	Biblical Hebrew II	3
RELB	3108	Acts and Epistles I	3
RELB	3107	Biblical Apocalypse I	3
RELT	3111	Modern Ecumenical Movement	3
RELT	3109	SDA Doctrines	3
RELR	3102	Research Project	3
<b>Total</b>			<b>24</b>

**Third Year Semester 2**

<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
RELT	3210	Christian Theology	3
BIBL	3206	Biblical Exegesis	3
RELP	3212	Pastoral Care and Counselling	3
RELB	3210	Acts and Epistles II	3
RELB	3211	Prophets of Israel	3
RELP	3211	Theory and Practice of Public Evangelism	3
RELB	3209	Biblical Apocalypse II	3
RELT	3208	Church and Gender Issues	3
<b>Total</b>			<b>24</b>

**Third Year Semester 3 (summer)**

<b>Codes</b>		<b>Course Title</b>	<b>CU</b>
BDAC	3301	Denominational Accounting	3
RELT	3305	SDA History	3
RELP	3302	Ministerial Placement II	3
<b>Total</b>			<b>9</b>

## DEPARTMENT OF RELIGIOUS STUDIES

Head, Joseph Twesigye, MA Pastoral Ministry, (Solusi University, Zimbabwe,) BTH (Bugema College, Uganda.)

### BACHELOR OF ARTS IN RELIGIOUS STUDIES

#### Brief Description

The course equips students with the necessary skills for Gospel Ministry. Based on the foundation and Propositions of the Seventh-day Adventist Church, the course furnishes students with basic tools of interpreting scripture within the historical grammatical context.

Bachelor of Arts in Religious Studies (BARC) is the basic entrance qualification for Ministry in the Seventh-day Adventist Church.

Its content reflects an understanding of the church's Theology, history, mission and competence in Pastoral skills relevant to the needs of the contemporary world. It provides a basis for graduate study in the Biblical, Pastoral and Theological areas.

#### DURATION OF THE PROGRAMME

For a student to graduate with the Degree Bachelor of Arts in Religious Studies, he or she must complete a minimum of 157 credits. These include general education courses, Biblical Languages, Biblical Studies, Professional and Pastor Studies, Theological and philosophical studies, guided Research work, course concentration and supervised Field Practicum during the months of June and July. The course is expected to be completed in a minimum of 3 years. However, students who have passed through education systems that do not have A-Level or its equivalent must take a total of 199 credit hours completed in a minimum period of (4) years. The In-service Pastors will complete their studies within a period of four years or five years depending on the educational system of the countries of their origin.

#### Graduation Requirements for Bachelor of Theology (BTH)

Course Category	Credits
Biblical Languages	12
Biblical Studies	33
Professional and Pastoral Studies	36
Theological and Philosophical Studies	24
Research	06
Concentration	30
General Education Courses	16
<b>Totals</b>	<b>157</b>

#### Basic requirements for Bachelor of Arts in Religious Studies

Biblical Languages							12
Code		Name	LH	TH	PH	CH	CU
BIBL	1101	Elementary Greek I	30	15	0	45	3
BIBL	1202	Elementary Greek II	30	15	0	45	3
BIBL	2204	Biblical Hebrew I	30	15	0	45	3
BIBL	3105	Biblical Hebrew II	30	15	0	45	3
<b>Total Biblical Languages</b>							<b>12</b>

<b>Biblical Studies</b>							<b>30</b>
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
RELB	1201	Biblical Backgrounds and Arch.	30	15	0	45	3
RELB	1203	Pentateuch and Hexateuch	30	15	0	45	3
RELB	2205	Studies in Gospels	30	15	0	45	3
RELB	3107	Biblical Apocalypse I	30	15	0	45	3
RELB	3209	Biblical Apocalypse II	30	15	0	45	3
RELB	3108	Acts and Epistles I	30	15	0	45	3
RELB	3210	Acts and Epistles II	30	15	0	45	3
RELB	3211	Prophets of Israel	30	15	0	45	3
RELB	2102	Culture & Denominational Studies	30	15	0	45	3
RELB	2104	Spiritual Formation	30	15	0	45	3
RELB	2206	Psalms and Wisdom Writings	30	15	0	45	3
<b>Total Biblical Studies</b>							<b>33</b>
<b>Professional and Pastoral Studies</b>							<b>24</b>
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
BDAC	1301	Denominational Accounting	30	15	00	45	3
RELP	2105	Marriage and Family	30	15	00	45	3
RELP	2207	Princ of Church Growth & Ch.Plan	30	15	00	45	3
RELP	3211	Public Evang. (Theory and Practice)	30	15	00	45	3
RELP	3110	Leadership and Church Admin	30	15	00	45	3
RELP	1101	Pastoral Ministry	30	15	00	45	3
RELP	2104	Stewardship and Self-Reliance	30	15	00	45	3
RELP	2209	Ministry for Specialized Needs	30	15	00	45	3
RELP	2108	Homiletics	30	15	00	45	3
RELP	2106	Foundations of Youth Ministry	30	15	00	45	3
RELP	1103	Christian Witnessing and Lit. Ev.	30	15	00	45	3
RELP	3302	Min. Plac. II/Urban Min. Plac.	30	15	00	45	3
<b>Total Professional and Pastoral Studies</b>							<b>36</b>
<b>Theological and Philosophical Studies</b>							<b>24</b>
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
RELT	1201	Comparative Religions	30	15	00	45	3
RELT	3305	SDA History	30	15	00	45	3
RELT	2207	Min. and Mess E. G. White	30	15	00	45	3
RELT	3109	SDA Doctrines	30	15	00	45	3
RELT	2203	African Theological Thought	30	15	00	45	3
RELT	3208	Church and Gender Issues	30	15	00	45	3
RELT	3210	Christian Theology	30	15	00	45	3
RELT	3111	Modern Ecumenical Movement	30	15	00	45	3
<b>Total</b>							<b>24</b>
<b>Research</b>							<b>6</b>
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
RELR	2201	Religious Research Methods	30	15	0	45	3
BREP	3102	Research Project	30	15	0	45	3
<b>Total</b>							<b>6</b>
<b>General Education Courses</b>							<b>16</b>
<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECC	1101	Funds of Computer and Office Appl	45	00	30	60	4



GECH	1101	Health Principles	30	60	00	45	3
GECL	1101	Introduction to Writing Skills	30	60	00	45	3
GECS	1201	Issues in Science and Religion	30	00	30	45	3
GECA	1201	Philosophy of Christian Education	30	00	30	45	3
<b>Total</b>							<b>16</b>
<b>Total Basic Requirements:</b>							<b>127</b>

### Major in Chaplaincy

For a student to graduate in BARS with major area of emphasis in Chaplaincy, he or she should complete the following:

Code	Name	LH	TH	PH	CH	CU	
RECH	1110	Issues in Drug Abuse	30	15	00	45	3
RECH	1302	Chaplaincy Placement	00	00	180	00	3
RECH	1101	Introduction to Chaplaincy	30	15	00	45	3
RECH	2104	School Chaplaincy	30	15	00	45	3
RECH	1205	Correctional Chaplaincy	30	15	00	45	3
RECH	1206	Health Chaplaincy	30	15	00	45	3
RECH	3107	Military Chaplaincy	30	15	00	45	3
RECH	3208	Institutional Psych. and Couns.	30	15	00	45	3
RECH	3103	Stress and Crisis management	30	15	00	45	3
RECH	3209	Instit.Policies and Chapl. Ethics	30	15	00	45	3

<b>Total Chaplaincy Concentration</b>							<b>30</b>
<b>Total Credits for BARS major in Chaplaincy</b>							<b>157</b>

### Course Schedule for Bachelor of Arts in Religious Studies Major in Chaplaincy

#### First Year Semester 1

Course	Course Name	CU	
BIBL	1101	Elementary Greek I	3
RECH	1101	Introduction to Chaplaincy	3
GECH	1101	Health Principles	3
GECC	1101	Fundamentals of Computer & Office Application	4
GECL	1101	Introduction to Writing Skills	3
RELP	1101	Pastoral Ministry	3
RECH	1110	Issues in Drug Abuse	3
RELP	1103	Christian Witnessing and Literature Evangelism	3
		General Education Course	3
<b>Total</b>			<b>25</b>

#### First Year Semester 2

Course	Course Name	CU	
BIBL	1202	Elementary Greek II	3
RELB	1201	Biblical Backgrounds & Archaeology	3
RELB	1203	Pentateuch and Hexateuch	3
RELT	1201	Comparative Religions	3
GECS	1201	Issues in Science and Religion	3
RECH	1206	Health Chaplaincy	3
GECA	1201	Philosophy of Christian Education	3
RECH	1205	Correctional Chaplaincy	3
<b>Total</b>			<b>24</b>

**First Year – Third Semester (summer)**

<b>Course</b>	<b>Course Name</b>	<b>CU</b>
RECH 1302	Chaplaincy Placement	3

**Second Year Semester 1**

<b>Course</b>	<b>Course Name</b>	<b>CU</b>
RECH 2104	School Chaplaincy	3
RELP 2106	Foundations of Youth Ministry	3
RELP 2108	Homiletics	3
RELB 2102	Culture and Denominational Studies	3
RELP 2104	Stewardship and Self-Reliance	3
RELP 2102	Music and Dynamics of Worship	3
RELP 2105	Marriage and Family	3
RELB 2104	Spiritual Formation	3
<b>Total</b>		<b>24</b>

**Second Year Semester 2**

<b>Course</b>	<b>Course Name</b>	<b>CU</b>
BIBL 2204	Biblical Hebrew I	3
RELR 2201	Religious Research Methods	3
RELB 2205	Studies in Gospels	3
RELT 2203	African Theological Thought	3
RELB 2206	Psalms & Wisdom Writings	3
RELP 2207	Principles of Church Growth & Church Planting	3
RELT 2207	Ellen G. White Ministry	3
RELP 2209	Ministry for Specialized Needs	3
<b>Total</b>		<b>24</b>

**Third Year Semester 1**

<b>Course</b>	<b>Course Name</b>	<b>CU</b>
RECH 3107	Military Chaplaincy	3
RELB 3107	Biblical Apocalypse 1	3
RELB 3108	Acts and Epistles I	3
RELT 3109	SDA Doctrines	3
BIBL 3105	Biblical Hebrew II	3
RECH 3103	Stress and Crisis Management	3
BREP 3102	Research Project	3
RELP 3110	Leadership and Church Administration	3
<b>Total</b>		<b>24</b>

**Third Year Semester 2**

<b>Course</b>	<b>Course Name</b>	<b>CU</b>
RECH 3209	Institutional Policies and Chaplaincy Ethics	3
RELB 3210	Acts and Epistles II	3
RELB 3211	Prophets of Israel	3
RELT 3208	Church and Gender Issues	3
RELP 3211	Theory and Practice for Public Evangelism	3
RELB 3209	Biblical Apocalypse II	3
RECH 3208	Institutional Psychology and Counselling	3
RELT 3210	Christian Theology	3
<b>Total</b>		<b>24</b>

**Third Year Semester 2 (Summer)**

Course	Course Name	CU
BDAC 3301	Denominational Accounting	3
RELT 3305	SDA History	3
RELP 3302	Ministerial Placement II	3
<b>Total</b>		<b>9</b>

Intensive Remedial Program (IRP) An Intensive Remedial Program is applicable only for a graduating student who is unable to complete his or her course work during the regular semester session because of some unavoidable reasons he or she is missing a course (or a maximum of two courses). A student can request his or her department head to offer the above mentioned course(s) so that he or she can register for IRP (formerly called “summer”). IRP can be offered only in the month of June before the lecturers go for the field supervision. This program is applicable for both BTh and BAR students.

For a student to graduate in BARS with major area of emphasis in Development Ministry, he or she should complete the following:

**Major In Development Ministry**

Code	Name	LH	TH	PH	CH	CU
BADS 2106	Development Communication	30	15	0	45	3
BACD 2214	Monitoring and Evaluation of Development Programs	30	15	0	45	3
BDEC 3110	Community Development Theory & Practice	30	15	0	45	3
BACD 3226	Development Administration & Management	30	15	0	45	3
BADS 3116	Technological Development and Social Change	30	15	0	45	3
BDEC 3204	Strategic Planning and management	30	15	0	45	3
BDEC 1101	Introduction to Peace and Conflict Management	30	15	0	45	3
BACD 2113	Resource Mobilization & Grants Writing	30	15	0	45	3
BACD 3223	Sustainable Rural & Urban Livelihood	30	15	0	45	3
BHEM 1101	Principles of Emergency and Disaster Management	30	15	0	45	3
<b>Total</b>	<b>Development Ministry Concentration</b>					<b>30</b>
<b>Total Credits for BARS major in Development Ministry</b>						<b>157</b>

**Course Sequence for Bachelor of Arts in Religious Studies Major in Development Ministry****First Year Semester 1**

Course	Course Name	CU
BIBL 1101	Elementary Greek I	3
BHEM 1101	Principles of Emergency and Disaster Management	3
GECH 1101	Health Principles	3
GECC 1101	Fundamentals of Computer and Office Application	3
GECL 1101	Introduction to Writing Skills	3
RELP 1103	Christian Witnessing & Literature Evangelism	3

RELP	1101	Pastoral Ministry	3
BPCM	1101	Introduction to Peace & Conflict Management	3
<b>Totals</b>			<b>24</b>

**First Year Semester 2**

<b>Course</b>		<b>Course Name</b>	<b>CU</b>
BIBL	1202	Elementary Greek II	3
RELB	1201	Biblical Backgrounds & Archeology	3
RELT	1201	Comparative Religions	3
RELB	1203	Pentateuch and Hexateuch	3
GECA	1201	Philosophy of Christian Education	3
BADS	1204	Project Planning and Management	3
GECS	1201	Issues in Science and Religion	3
BACD	2214	Monitoring and Evaluation of Development Programs	3
<b>Total</b>			<b>24</b>

**Second Year Semester 1**

<b>Course</b>		<b>Course Name</b>	<b>CU</b>
BENT	2101	Basic Entrepreneurship	3
BACD	2106	Development Communication	3
RELB	2104	Spiritual Formation	3
RELB	2102	Culture and Denominational Studies	3
RELP	2106	Foundations of Youth Ministry	3
RELP	2104	Stewardship and Self-Reliance	3
BACD	2113	Resource Mobilization and Grants Writing	3
RELP	2105	Marriage and Family	3
<b>Total</b>			<b>24</b>

**Second Year Semester 2**

<b>Course</b>		<b>Course Name</b>	<b>CU</b>
BIBL	2204	Biblical Hebrew I	3
RELP	2209	Ministry for Specialized Needs	3
RELT	2203	African Theological Thought	3
RELR	2201	Religious Research Methods	3
RELB	2205	Studies in Gospels	3
RELB	2206	Psalms and Wisdom Writings	3
RELT	2207	Messages and Ministry of Ellen G. White	3
RELP	2207	Principles of Church Growth & Church Planting	3
<b>Total</b>			<b>24</b>

**Year 2 Semester 3 (summer)**

<b>Course Code</b>		<b>Course Title</b>	
BSFE	2301	Field Practicum	3
<b>Total</b>			<b>3</b>

**Third Year Semester 1**

<b>Course</b>		<b>Course Name</b>	<b>CU</b>
REUM	3107	Urban Peace & Conflict Management	3
RELP	3110	Leadership and Church Administration	3
BIBL	3105	Biblical Hebrew II	3
RELB	3107	Biblical Apocalypse I	3
RELB	3108	Acts and Epistles I	3

BACD	3110	Community Development Theory & Practice	3
RELT	3109	SDA Doctrines	3
BREP	3102	Research Project	3
<b>Total</b>			<b>24</b>

**Third Year Semester 2**

<b>Course</b>	<b>Course Name</b>	<b>CU</b>
RELB 3210	Acts and Epistles II	3
RELT 3208	Church and Gender Issues	3
RELB 3211	Prophets of Israel	3
BPAM 3204	Strategic Planning and Management	3
RELP 3211	Theory and Practice of Public Evangelism	3
RELB 3209	Biblical Apocalypse II	3
BACD 3226	Development Administration & Management	3
BACD 3223	Sustainable Rural & Urban Livelihood	3
<b>Total</b>		<b>24</b>

**Third Year Semester 3 (summer)**

BDAC 3301	Denominational Accounting	3
RELT 3305	SDA History	3
RELP 3302	Ministerial Placement II	3
<b>Total</b>		<b>9</b>

**Major in Evangelism and Church Growth**

For a student to graduate in BARS with major area of emphasis in Evangelism and Church Growth, he or she should complete the following:

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
REEV 1102	Biblical Foundations of Mission	30	15	0	45	3
REEV 3210	Practicum Church. Growth and ch.Pl.30	15	0	0	45	3
REEV 2103	Principles & Practice of Personal Eva.	30	15	0	45	3
RELT 1207	Ministry and Culture	30	15	0	45	3
REEV 1204	Urban Ministry and Mission	30	15	0	45	3
REEV 3109	Public Evang. Practicum	30	15	0	45	3
REEV 3211	Community Dev. and Heath Evang.	30	15	0	45	3
RELP 2105	Children and Youth Ministries	30	15	0	45	3
REEV 3208	Muslim and Urban Evangelism	30	15	0	45	3
REEV 1101	Introduction to Missiology	30	15	0	45	3
<b>Total Evangelism Concentration</b>						<b>30</b>
<b>Total Credits for BARS Major in Evangelism and Church Growth</b>						<b>157</b>

**Course Schedule for Bachelor of Arts in Religious Studies Major in Evangelism and Church Growth****Semester Schedule****First Year Semester 1**

<b>Course</b>	<b>Course Name</b>	<b>CU</b>
BIBL 1101	Elementary Greek I	3
REEV 1106	Small Group Dynamics	3
GECH 1101	Health Principles	3
GECC 1101	Fundamentals of Computer and Office Application	4
GECL 1101	Introduction to Writing Skills	3
REEV 1101	Introduction to Missiology	3

REL P	1101	Pastoral Ministry	3
REEV	1102	Biblical Foundations of Mission	3
<b>Total</b>			<b>25</b>

**First Year Semester 2**

<b>Course</b>		<b>Course Name</b>	<b>CU</b>
RELB	1201	Bible Backgrounds and Arch.	3
GECA	1201	Philosophy of Christian Education	3
REEV	1204	Urban Ministry and Mission	3
RELT	1201	Comparative Religions	3
BIBL	1202	Elementary Greek II	3
RELB	1203	Pentateuch and Hexateuch	3
RELT	1202	History of the Christian Church	3
GECS	1201	Issues in Science and Religion	3
<b>Total</b>			<b>24</b>

**First Year Semester 3 (summer)**

<b>Course</b>		<b>Course Name</b>	<b>CU</b>
REL P	1201	Ministerial Placement I	3
<b>Total</b>			<b>3</b>

**Second Year Semester 1**

<b>Course</b>		<b>Course Name</b>	<b>CU</b>
RELB	2104	Spiritual Formation	3
REEV	2103	Principles and Practice of Personal Evangelism	3
RELB	2102	Culture and Denominational Studies	3
REL P	2102	Music and Dynamics of Worship	3
REL P	2104	Stewardship and Self- Reliance	3
REEV	2105	Children and Youth Ministries	3
REL P	2105	Marriage and Family	3
REL P	2108	Homiletics	3
<b>Total</b>			<b>24</b>

**Second Year Semester 2**

<b>Course</b>		<b>Course Name</b>	<b>CU</b>
REL P	2209	Ministry for Specialized Needs	3
RELR	2201	Religious Research Methods	3
BIBL	2204	Biblical Hebrew I	3
RELB	2205	Studies in Gospels	3
RELB	2206	Psalms and Wisdom Writings	3
REL P	2207	Principles of Church Growth & Church Planting	3
RELT	2203	African Theological Thought	3
RELT	2207	Ministry and Messages of Ellen G. White	3
<b>Total</b>			<b>24</b>

**Third Year Semester 1**

<b>Course</b>		<b>Course Name</b>	<b>CU</b>
RELB	3107	Biblical Apocalypse 1	3
RELB	3108	Acts and Epistles I	3
BIBL	3105	Biblical Hebrew II	3
RELT	3111	Modern Ecumenical Movement	3
REL P	3110	Leadership and Church Administration	3

RELT	3109	SDA Doctrines	3
REEV	3109	Public Evang. Practicum	3
<b>Total</b>			<b>21</b>

**Third Year Semester 2**

<b>Course</b>		<b>Course Name</b>	<b>CU</b>
RELB	3210	Acts and Epistles II	3
BREP	3102	Research Project	3
RELB	3211	Prophets of Israel	3
REEV	3210	Practicum Church-Growth and Church Planting	3
RELT	3208	Church and Gender Issues	3
REEV	3211	Community Development and Health Evangelism	3
RELB	3209	Biblical Apocalypse II	3
REEV	3208	Muslim and Urban Evangelism	3
<b>Total</b>			<b>24</b>

**Third Year Semester 3 (summer)**

<b>Course</b>		<b>Course Name</b>	<b>CU</b>
BDAC	3301	Denominational Accounting	3
RELT	3305	SDA History	3
RELP	3302	Ministerial Placement II	3
<b>Total</b>			<b>9</b>

**Major in Urban Ministry**

For a student to graduate in BARS with major area of emphasis in Urban Ministry, he or she should complete the following:

<b>Code</b>		<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
REUM	1101	Introduction to Urban Ministry	30	15	0	45	3
BSPC	2213	Theories and Techniques of Counselling	30	15	0	45	3
REUM	1202	Urban History and African Devel. Issues	30	15	0	45	3
REUM	1204	Theory and Practice of Urban Min.	30	15	0	45	3
REEV	3211	Community Development and Health Evang.	30	15	0	45	3
REUM	1205	Introduction to Urban Sociology	30	15	0	45	3
BPAM	3204	Strategic Planning and Management	30	15	0	45	3
BACD	2113	Resource Mobilization Grant Writing	30	15	0	45	3
REUM	3107	Urban Peace and Conflict Mgt.	30	15	0	45	3
RECH	3103	Stress and Crisis Management	30	15	0	45	3
<b>Total Urban Ministry Concentration</b>							<b>30</b>
<b>Total Credits for BARS Major in Urban Ministry</b>							<b>157</b>

**Semester Schedule****First Year- First Semester**

<b>Course</b>		<b>Course Name</b>	<b>CU</b>
BIBL	1101	Elementary Greek I	3
REUM	1101	Introduction to Urban Ministry	3
GECH	1101	Health Principles	3
GECC	1106	Fundamentals of Computer and Office Application	3
RELP	1103	Christian Witnessing and Literature Evangelism	4
GECL	1101	Introduction to Writing Skills	3

RELP	1101	Pastoral Ministry	3
REEV	1102	Biblical Foundations of Mission	3
<b>Total</b>			<b>25</b>

**First Year Semester 2**

<b>Course</b>	<b>Course Name</b>	<b>CU</b>
REUM 1202	Urban History and African Development Issues	3
RELT 1201	Comparative Religions	3
RELB 1201	Biblical Backgrounds and Archaeology	3
RELB 1203	Pentateuch and Hexateuch	3
RELT 1202	History of the Christian Church	3
GECS 1201	Issues in Science and Religion	3
BIBL 1202	Elementary Greek II	3
REUM 1205	Introduction to Urban Sociology	3
<b>Total</b>		<b>24</b>

**First Year Semester 3 (Summer)**

<b>Course</b>	<b>Course Name</b>	<b>CU</b>
RELP 1201	Urban Ministerial Placement I	3
BIBL 1202	Elementary II	3
<b>Total</b>		<b>6</b>

**Second Year Semester 1**

<b>Course</b>	<b>Course Name</b>	<b>CU</b>
RELB 2104	Spiritual Formation	3
RELP 2104	Stewardship and Self-Reliance	3
RELB 2102	Culture and Denominational Studies	3
BACD 2113	Resource Mobilization & Grant Writing	3
RELP 2106	Foundations of Youth Ministry	3
RELP 2105	Marriage and Family	3
RELP 2108	Homiletics	3
RELT 2106	Christian Ethics	3
<b>Total</b>		<b>24</b>

**Second Year Semester 2**

<b>Course</b>	<b>Course Name</b>	<b>CU</b>
RELR 2201	Religious Research Methods	3
BREM 2201	Research Methods	3
BIBL 2204	Biblical Hebrew I	3
RELB 2205	Studies in Gospels	3
RELP 2207	Principles of Church Growth and Church Planting	3
RELT 2203	African Theological Thought	3
RELB 2206	Psalms and Wisdom Writing	3
RELT 2207	Ministry and Messages of Ellen G. White	3
<b>Total</b>		<b>24</b>

**Third Year Semester 1**

<b>Course</b>	<b>Course Name</b>	<b>CU</b>
RECH 3103	Stress and Crisis Management	3
BIBL 3105	Biblical Hebrew II	3
BREP 3102	Research Project	3
RELB 3108	Acts and Epistles I	3
RELB 3107	Biblical Apocalypse I	3



RELP	3110	Leadership and Church Administration	3
RELT	3109	SDA Doctrines	3
REUM	3107	Urban Peace and Conflict Management	3
<b>Total</b>			<b>24</b>

**Third Year Semester 2**

<b>Course</b>		<b>Course Name</b>	<b>CU</b>
RELB	3209	Biblical Apocalypse 11	3
RELB	3210	Acts and Epistles II	3
RELB	3211	Prophets of Israel	3
RELP	3211	Theory and Practice of Public Evangelism	3
RELT	3208	Church and Gender Issues	3
BPAM	3204	Strategic Planning and Management	3
BSPC	2213	Theories and Techniques of Counselling	3
REEV	3211	Community Development and Health Evangelism	3
<b>Total</b>			<b>24</b>

**Third Year Semester 3 (Summer)**

<b>Course</b>		<b>Course Name</b>	<b>CU</b>
BDAC	3301	Denominational Accounting	3
RELT	3305	SDA History	3
RELP	3302	Urban Ministerial Placement II	3
<b>Total</b>			<b>9</b>

## THEOLOGY AND RELIGIOUS STUDIES COURSE DESCRIPTIONS

### **BIBL 1101 Elementary Greek I (3 Credits)**

The course covers the elements of the New Testament Greek, entailing the Greek alphabet and grammar which includes basic forms of tenses, cases, voices, moods, genders and numbers.

### **BIBL 3206 Biblical Exegeses (3 Credits)**

This course is an advanced study of biblical languages Hebrew and Greek, and their hermeneutical applications to the Bible. The study covers all the steps of exegesis, reading, translation of the original bible text, textual criticism, principles of poetic and prophetic literature, genre and apocalyptic interpretation, so as to handle correctly the word of God (2 Tim 2:15).

### **BIBL 1202 Elementary Greek II (3 Credits)**

The course is an attempt to come to grips with the basic forms of elements of grammar, tenses, cases, voices, moods, genders and their functions

### **BIBL 2103 Intermediate Greek (3 Credits)**

This is a study of the New Testament Greek syntax, which is the process of analyzing and classifying the modes of expression presented by a language. It deals with the grammatical relations between words based on rational principles of thought expression. Given that a typical expression of thought contains the elements of subject (basically a noun) and predicate (basically a verb), the study will focus mainly on the syntax of nouns and verbs.

### **BIBL 2204 Biblical Hebrew I (3 Credits)**

This course is designed to provide a student with practical tools to attempt to read, write, transliterate, translate, and grasp the structure of Biblical Hebrew. The course, therefore, introduces the student to the relevant vocabulary and rules in an attempt to prepare the student for effective and meaningful work in the language.

### **BIBL 3105 Biblical Hebrew II (3 Credits)**

This course is a continuation of BIBL 2204 Biblical Hebrew I. It is designed to provide a student with more tools to translate Biblical Hebrew. The course, therefore, introduces the student to acquiring more tools to handle grammar and basics of syntax. Additionally, it leads a student to mastering relevant vocabulary; as well as advancing in the application of the basics of Bible Works software in order to analyze Hebrew word forms and sentences with relative ease.

### **GECL 1101 Christian Beliefs (3 Credits)**

This course introduces students to the fundamental beliefs of the Christian faith. The emphasis is put on Bible themes such as revelation, Bible and inspiration, Godhead, man's creation, fall and salvation, nature of man, life, death, resurrection, Sabbath, baptism, stewardship, Lord's Supper, Christian behavior, great controversy, the second coming of Christ, millennium, the end of sin and new earth.

### **GECS 1201 Issues in Science and Religion (3 Credits)**

This course is intended to cover studies from the Naturalistic world view in contrast with those from Divine revelation. The Emphasis of this course is to learn how biological data related to earth history and the origin of life can be harmonized with divine revelation. Specific topics include the nature and limitations of science, theories of the origin of life

and geologic strata, speciation, catastrophism, paleontology and geochronology. Other areas such as the relation between science and religion, Sociobiology, stewardship of the earth and other issues may be discussed.

### **RECH 3107 Military Chaplaincy (3 Credits)**

The course examines the issues confronting the military chaplain. In order to grant a degree of self-sufficiency in religion through providence of spiritual and pastoral support, it underscores the necessity of students' understanding of military force and the life of a soldier in regard to their physiological, emotional, psychological, cognitive, relational, social, and spiritual development, so as to effectively minister to them, their families, related staff and their respective communities.

### **RECH 2104 School Chaplaincy (3 Credits)**

The course examines the issues confronting the school chaplain of both church-based and 'secular' campus ministries. It underscores the necessity chaplain's understanding of teenagers and adolescents from the physiological, psychological, emotional, cognitive, relational, social, and spiritual spheres of being, so as to effectively minister to both the young and adults, the teaching and non-teaching staff, the Christian and non-Christian, and all people from various walks of life.

### **RECH 1206 Health Chaplaincy (3 Credits)**

The course examines the issues confronting health care chaplaincy or hospital-based ministry (acute care hospital, rehabilitation centres), nursing home facilities, homes for the young and elderly, social services centres, et-cetera. With the understanding of patients', client' or residents' physiology, psychological, emotional, cognitive, relational, social, and spiritual aspects. It explores innovative and effective strategies for ministering to them and their families, and the staff therein.

### **RECH 3209 Institutional Policies and Chaplaincy Ethics (3 Credits)**

The course introduces the student to the relevant policies, legal issues and procedures upon which chaplaincy institutions operate, in conjunction with Government statutes and regulations that govern the operations of such institutions and how they directly or indirectly affect a chaplain. The course further considers a range of moral theories and principles that provide the basis for the thoughtful consideration of specific ethical issues within the professional conduct and behavior of a chaplain in the course of duty within the various contexts of chaplaincy.

### **RECH 1101 Introduction to Chaplaincy (3 Credits)**

This is a general course introducing the student to the concept of chaplaincy, the duties, responsibilities and conduct of a chaplain. It surveys the major areas of School, Correctional, Military and Health chaplaincy.

### **RECH 3103 Stress and Crisis Management (3 Credits)**

This course is designed to equip students with knowledge and skills to manage various situations of crises and stresses especially in the Cities. The course will cover the conditions that bring stress and diseases that may arise as a result of stress. Finally, the course will cover the remedies for overcoming stress especially in the City.

### **RECH 3208 Institutional Psychology and Counseling**

This course comprises an examination of the interface between psychology and chaplaincy as a basis for evaluating approaches to counseling in the various contexts of chaplaincy. The course seeks to empower the student with adequate knowledge and skills

in the effective management of the varied circumstances and situations of the different contexts of chaplaincy. Issues in relation to drugs and sexuality will also be addressed.

### **RECH 1110 Issues in Drug Abuse and Addiction**

This course provides an introductory coverage of major topics in drug use and abuse and such drugs as medicines, prescription medicines, nonprescription drugs, drug abuse, drugs of abuse: marijuana, amphetamines, cocaine, hallucinogens, opiates, etc; emphasis on addiction of all substances, drugs and the brain, drugs and driving. Alcohol use and abuse, its effects on human health and some strategies for recovery, other addictive practices such as gambling, masturbation will be part of the discourse.

### **REEV 1102 Biblical foundations of mission (3 credits)**

A study of biblical principles of out-reach and in-reach, with particular focus upon the role and mission of the nation of Israel in the old testament, the ministry and mission of Jesus Christ, the Apostolic church in the book of acts and the ministry of Paul. The central question this course seeks to answer is, “what all these basic-biblical studies imply to the present mission and ministry of Jesus Christ in our present context”.

### **REEV 3211 Community Development and Health Evangelism (3 Credits)**

This course examines the importance of community development in the urban setting, as well as health-care ministry in evangelism, based on Jesus’ model of soul winning. The course focuses on the holistic approach to human needs.

### **REEV 2103 Principles and Practice of Personal Evangelism (3 Credits)**

This course is a study of the Biblical Principles and the Christian Practice of Person Evangelism based on Jesus model of witnessing. This course seeks to empower the student with effective Biblical and Scientific methods and strategies of witnessing at work, one to – one approach and group dynamics. It explores areas such Bible study, prayer ministry, service group ministries, internet evangelism and other effective tools of Christian witnessing.

### **REEV 2105 Children and Youth Ministries (3 Credits)**

This course focuses on effective Biblical and effective Christian training and retaining of children and young adults as present and future members and leaders of the church. The course also deals with contemporary challenges faced by the parent and the church in the raising of the young, and how the young can be effective tools of evangelism.

### **REEV 3208 Muslim and Urban Evangelism (3 Credits)**

This course is a study of the dynamics of evangelism in urban centers as well as in Muslim populated areas. It also considers the urban church leadership in light of their spiritual, multicultural, geographic, social, economic, demographic and political contexts. The course also explores the Muslim challenges and some effective methods and strategies for mutual dialogue and evangelism.

### **REEV 3210 Church Growth and Church Planting Practicum (3 Credits)**

This is a practical course in which the student has to use the Principles of Church growth and Church planting to nurture the planted church after a Public Campaign. The student under the close supervision of the Lecturer should see the church growth for at least one year. The supervisor will evaluate the student and give a final grade.

### **REEV 3109 Public Evangelism Practicum (3 Credits)**

The student is required under the guidance of the Lecturer to conduct an evangelistic campaign for two weeks in the community of Bugema University. The student will work closely with the Local Church and the supervisor and should be able to plant a church and nurture it for one year in the program of church growth and church planting practicum. The supervisor will give a final grade after the evangelistic campaign.

### **REEV 1106 Small Group Dynamics (3 Credits)**

In the wake of mega-churches, the spirit of individualism and extreme pressures of time, this course seeks to orient the student to the biblical basis for community, cell organization, and a sense of belonging as a basis for evangelism, discipleship and nurture of the church.

### **REEV 1207 Ministry and Culture**

This course is a historical and contemporary study of the multicultural contexts in which ministry takes place. The course seeks to make the student appreciate the various cultural contexts which may hinder or advance the work of the gospel. It also intends to reflect on the biblical and historical background of the Christian ministry.

### **REEV 1101 Introductions to Missiology (3 Credits)**

This course is an introduction to missiology with an emphasis on the theology of mission, the history of missions, scope of mission, and various philosophies of mission in general. The course also presents the Adventist theology and philosophy of mission, musicological principles, challenges facing global mission in the twenty-first century, mission strategies and implementations in the given cultural settings.

### **REEV 1204 Urban Ministry and Mission (3 Credits)**

This course focuses on the study of the city as the major center of mission and ministry in the twenty-first century. It examines the process and impact of urbanization and secularization, the complex of multicultural interaction in the city. It explores on how the pastor and his church can minister in the urban environment. Special emphasis will be given to urban contextual analysis and conducting balanced evangelistic programs that will lead to lifelong disciplines and church planting.

### **RELB 3107 Biblical Apocalypse I (3 Credits)**

A study of the background and content of the book of Daniel. An analysis of the hermeneutical principles involved in interpreting biblical apocalyptic literature helps to equip students with an understanding of the message of Daniel for these times of the end.

### **RELB 3209: Biblical Apocalypse II (3 Credits)**

This course deals with the investigation of the Biblical Apocalypse and the historical backgrounds to the book of Revelation, including the nature of apocalyptic literature and its relevance in today's world.

Attention is also given to the interpretation of the symbolic prophecies. A research paper will be required.

### **RELB 3108 Acts and Epistles I (3 Credits)**

The course covers the history of the apostolic church as documented in the book of Acts of the Apostles, studies of 1 and 2 Corinthians and the Pastoral Epistles.

**RELB 3210 Acts and Epistles II (3 Credits)**

The course covers an exegetical study of Romans, Galatians and Hebrews with special focus on righteousness by faith. It also covers a study of the prison and general epistles.

**RELB 1203 Pentateuch and Hexateuch (3 Credits)**

The course is an attempt to examine the historical and theological records of the relationship between God and His chosen people according to the first six books of the Bible. Emphasis is put on the outline, composition, themes and legal characters of the books.

**RELB 2205 Studies in the Gospels (3 Credits)**

A study of the person, message and mission of Jesus Christ as recorded in the Gospels. Various critical approaches are examined and evaluated. The Synoptic problem and generally held scholarly positions are surveyed.

**RELB 3211 Prophets of Israel (3 Credits)**

The course explores the prophets of Israel in the light of the content and context of their respective literature and the impact of the political, religious, social, and economic situations of the time as compared against the requirements of the covenant heritage of Israel. This in turn will provide a ground for grasping the reason for the optimism of the prophets of Israel with regard to the immediate future and the Messianic hope.

**RELB 1201 Biblical Backgrounds and Archaeology (3 Credits)**

This course is a consideration of historical, archaeological, cultural, geographical, socio-economic and religious backgrounds of both Testaments. For the Old Testament, special emphasis is put on Hebrew patriarchs, exodus, conquest, Solomon and Davidic reign, Israel in relation to the early civilization, and Canaanite religion. For the New Testament emphasis is put on the Roman Empire, Hellenistic kingdom, Jewish states, Judaism, Greco-Roman pantheon, Emperor and occult worship, and mystery religions. The course further explores a historical development of the Bible from oral tradition to the original manuscripts, to modern English translations, its translations, canonization, and the major ancient versions.

**RELB 2104 Spiritual Formation (3 Credits)**

This course is a study that centers on how fallen but believing humans can obtain divine strength and victory by having a proper relationship with Jesus Christ. The course will include the understanding of the Fall of Man, the New Birth, the Holy Spirit and the Fruit of the Holy Spirit, Christian Growth, the Minister and Spiritual Life, Training in Godliness, the Christian in Relation to God's Grace, and the Life of Faith.

**REL P 3211 Theory and Practice of Public Evangelism (3 Credits)**

Theory of personal and public evangelism principles, procedures, methods, its importance, and the responsibility the work of evangelism, are some of the focuses for the discussion. The course also comprises of principles of church growth and further aims at helping the students develop and awareness of the factors that help or hinder church growth. A church growth survey research paper is required.

**REL P 1101 Pastoral Ministry (3 Credits)**

The "call" to ministry is examined along with the response of the minister to expectations placed upon them by both the local church members and the church administration. Ministerial spirituality and denominational procedures are surveyed.

**RELP 2106: Foundations of Youth Ministry (3 Credits)**

Designed to students who wish to develop expertise in working with the youth of the Church, or to work as youth director, secondary school teacher, or in any other youth guidance capacity.

**RELP 1103: Christian Witnessing and Literature Evangelism (3 Credits)**

This is a study of the dynamics of Christian witnessing in the community, at the work place and in a causal one –to-one contact. A book report is required. You may read and report on one of the books indicated. Christian Service, Evangelism, Gospel Workers, Acts of the Apostles, steps to Christ, Mission possible, I Must Preach This Gospel.

**RELP 3110 Leadership and Church Administration (3 Credits)**

This is the study that incorporates basic techniques of church leadership and Church Administration. Emphasis is placed on a pastor as a leader, counselor, and guide in his congregation and the community as a whole.

**RELP 2104 Stewardship and Self Reliance (3 Credits)**

This course is a detailed study of the biblical teaching of man's obligation to God as a steward of his body, time, talents, treasures and the environment, children, state and mission with the aim of molding a responsible church and society.

**RELP 2209 Ministry for Specialized Needs (3 Credits)**

This course explores the theology, philosophy, theory, and practices of Special Needs Ministries in fostering the wellbeing of persons with mental, physical, emotional and spiritual special needs. The course surveys biblical principles from the Old Testament and New Testament. The teachings and ministry of Jesus Christ to, for, and with people with special needs are used as basic guides in establishing practical principles of the ministry.

**RELP 2102 Music and Dynamics of Worship (3 Credits)**

The course covers a survey of key issues involved in the theology and practice of corporate worship in the church and the role of music in Christian worship. Emphasis is also put on the Adventist understanding and culture of music.

**RELP 2105 Marriage & Family (3 Credits)**

The course approaches marriage from a Christian perspective. It endeavors to underscore the sacredness of the institution and its importance in the family relationship. It also emphasizes that marriage is God ordained institution; therefore, it should not be taken lightly. The course takes into account the cultural elements of the African society.

**RELP 3212 Pastoral Care & Counselling (3 Credits)**

Biblical counselling and its distinctive features are defined. The role of the counsellor, the place of counselling in the pastoral ministry and counselling techniques are discussed. The Bible and the Word of God as a tool for counselling is the main focus.

**RELP 2207 Principles of Church Growth & Church Planting (3 Credits)**

This course introduces the student to the foundations, principles and contemporary trends of church growth and church planting with the respective challenges and opportunities. The student will be required to plant a church and nurture it for 1 year after the Effort. A church growth survey report of the planted church is required (with the lectures' instructions and guide lines)



**RELP 3109 Public Evangelism Practicum (3 Credits)**

This course covers the Practical part of public evangelism, principles, procedures, methods and its importance. The student will be required to work with any local church in the Bugema university community and conduct an effort with a plan to plant a new church and nurture it. A Church growth survey report paper is required. The student's performance will be assessed by the Local Pastor and the Lecturer.

**RELP 2207 Principles of Church Growth & Church Planting (3 Credits)**

The course introduces the student to the foundations, principles and contemporary trends of church growth and church planting with their respective challenges and opportunities. A church growth survey research paper is required (with professor's detailed instructions and guidelines).

**RELP 2108 Homiletics (3 Credits)**

This course aims to help students understand the basic principles of sermon preparation and delivery. Mainly, it is intended to educate the learners the theology, the mechanics, and the purpose of preaching. Students will learn the basics of preparing, preaching, structuring, and delivering effective and dynamic sermons. Attention will be given to all aspects of preparation and composition. The theology and history of preaching, contemporary perspectives, methods, development, and sermon analysis will also be considered. On the day of public preaching or sermon delivery, there will be a standardized public marking system may be used with the help of selected representative audience (if possible, from different walks of church community).

**RELT 3208 Church and Gender Issues (3 Credits)**

This course exposes the student to the role of women in the Bible and other Christian Literature in order to establish women's contribution to the growth, development and mission of God's community of believers. The aim is to construct a culturally relevant perception of the student on women in God's mission in the contemporary world. The course also looks at the way in which the gender debate has evolved within the Seventh-day Adventist Church.

**RELT 3109 Seventh-Day Adventist Doctrines (3 Credits)**

This course is a detailed and critical study of the fundamental beliefs and theology of the Seventh-day Adventist Church.

**RELT 2207 Messages and Ministry of Ellen G. White (3 Credits)**

The course deals with a study of the nature and purpose of the writings and works of Ellen G. White along with principles that govern the interpretation of those writings. A position paper is required.

**RELT 1202 History of the Christian Church (3 Credits)**

This course deals with the history of the Christian religion from its beginning until modern times. The thrust of the course begins from Christianity's apostolic origins to the protestant reformation and culminates in the rise of modern denominations, and their worldwide mission expansion and influence.

**RELT 3111 Modern Ecumenical Movement (3 Credits)**

The attempts to unite the Christian churches into one organic body from the early Christian era to the present. It will focus on factors favorable for the creation of the organic unity and factors determining the movement. The current direction of the movement with its educational, social and political influence on the society is also discussed.



**RELT 2106 Christian Ethics (3 Credits)**

This course is a study of Bible and philosophical basis for Christian ethics and its relevance for moral and social decision-making. The discussion takes into account major ethical alternatives such as antinomianism, situationism, generalist, unqualified absolutism, conflicting absolutism and graded absolutism. The issues such as Abortion, war, self-love, birth control, euthanasia, suicide, capital punishment, human ecology, biomedicine, civil disobedience, homosexuality, marriage and divorce are discussed.

**RELT 2203 African Theological Thought (3 Credits)**

There not being only one African traditional religion, and consequently not one theological thought but many, varying from one region to another, African Theological Thought can only describe the basic structures of traditional religions of a few communities, preferably from East Africa for reasons of relevance and applicability.

**RELT 3110 Christian Theology (3 Credits)**

This is a study of the main tenets of the Christian faith. Topics to be covered include: The Doctrine of God, Revelation and inspiration, Sin, Christology, Salvation, Church, Last Things, Salvation, and the Sanctuary. Each theme will take the form of a definition, the Biblical foundation, the historical background, contemporary discussions and its reinterpretation from the Christian point of view.

**RELT 2204 Studies in Bible and Quran (3 Credits)**

The course is an attempt to study Islamic theology as espoused in the holy Quran and other Islamic literature in relation to the Bible and Christianity. Survey is made of the origin of the Islamic faith, its doctrines and propagation.

**RELT 1201 Comparative Religions (3 Credits)**

This course is intended to give students knowledge of main concepts and beliefs of some major religions of the world namely: African Traditional Religions, Islam, Buddhism, Judaism, Confucianism and others.

The course also makes a survey of the development and practices of these respective religions as they are taught and observed.

**RELT 3305 SDA History (3 Credits).**

The course covers a study of the history of Seventh-Day Adventist Church from its 19th century Millerites roots, its organization and reorganization, the development of its missionary understanding and activities, to its present worldwide expansion.

**RELRL 2201 Religious Research Methods (3 Credits)**

This course is an introduction of to the basic and pure concepts and techniques using the Turabian style guide. The topics covered in this study include: major steps in research processes, formulation and development of a research problem statement, purpose of a research, objectives, hypothesis, significance, scope, methodology, and Review of literature. The course requires the student to write a well-developed proposal.

**REUM 111 Urban History and African Development Issues (3 Credits)**

This course covers the origin, growth and types of cities, rural-urban contrast, industrialization and urbanization. The course also covers the most pressing issues facing African countries especially in the cities in their quest for socio-economic development. The main focus is on contemporary issues and forthcoming challenges in the cities as opportunities for Adventist mission. Topics in this course include economic growth, politics and institutions, international trade and investment, industrial development,

poverty and inequality, wars and conflicts, population explosion, and exodus from the villages to the cities. The contemporary health issues, education, culture, technology, environmental concerns in the city and access to basic social services.

### **REUM 1101 Introduction to Urban Ministry (3 Credits)**

This course explores the nature of the city from a global perspective, noting the history and development of the cities, their relationship to the mission of God and the church. The course also explores the ways in which the church has and may impact the cities. Kampala City will be used in the case study, as it is an acceptable microcosm of the global urban reality and will give the students practical, hands-on experience in urban ministry in a variety of settings. The student will be exposed to the ministries with the affluent, the hungry, the homeless, the battered, the addicted, and the refugees as well as to a variety of public and private agencies that deal with these issues.

### **REUM 3107 Urban Peace and Conflict Management (3 Credits)**

The main objective of the course is to introduce students to cotemporary conflict resolution theory and practice in urban setting. The course provides a general introduction to the interdisciplinary field of peace studies combined with more focused study of conflict resolution from the biblical approach referring to Jesus' method of conflict resolution. The course is focused on the cities of Africa for purposes of relevance and practicality. Topics to be covered may include conflict resolution. Topics to be covered may include conflict resolution, causes of interpersonal conflict in the cities, causes of armed conflicts in the cities, issues of gender, human rights, humanitarian intervention, peacekeeping and peace building efforts.

### **REUM 1204 Theory and Practice of Urban Ministry (3 Credits)**

This course explores the nature of the city from a global perspective, noting the history and development of the cities, their relationship to the mission of God and the history and the church. The course also explores the ways in which the church has and may impact the cities. Kampala City will be used in the case study as it is an acceptable microcosm of the global urban reality and will give the students practical, hands-on experience in urban ministry in a variety of settings. The student will be exposed to the ministries with the affluent, the hungry, the homeless, the battered, the addicted, and the refugees as well as to a variety of public and private agencies that deal with these issues. An integral part of the practicum will be a supervised urban immersion consisting of a number of planned days and nights in Kampala.

### **BDAC 3301 Denominational Accounting (3 CREDITS)**

This course introduces the student to the Fundamental Principles of Accounting. The course should also cover such topics as receivables and short-term investments, inventory evaluation methods, different methods of computing depreciation. The sun system of the Seventh-day Adventist church should be introduced to the student. The course should also highlight the preparation of cash flows and financial statement analysis.

### **RELP 1201 Ministerial Placement I (3 credits)**

This course places the students where they can utilize the theory and practice of the ministry. The students will be resident at district or institution depend-ing upon the student's background and interest. The students will be given opportunity to use their theological training to the practice and development of leadership and ministerial skills. The period is two months during which the student will be supervised by an on-site supervisor and will be visited and assessed by a lecturer from the department

### **RELP 3302 Ministerial Placement II (3 Credits)**

Each student is required to conduct and participate in all aspects of a public evangelistic campaign as well as the process and procedures of church planting. This course will take place as arranged by the department, the student and the host organization.

### **RELR 3102 Research Project (3 credits)**

This course is an application of the academic and applied research skills gathered previously by students. They will develop a proposal on a topic of particular interest into an applied research project. This course is a culmination of the research proposal developed in RERE 112 Social Science Research Methods (about 10,000-word limit).

### **GECA 1201 Philosophy of Christian Education (3 credits)**

This is a study of aims, principles, and theory of education with special reference to church related schools. The foundational concepts and principles of philosophical thought and schools as they relate to education are represented from historical, political, cultural and religious viewpoints. Also included is a discussion of major African issues, needs, and trends, as well as the contribution of the Adventist Church to education around the world. The course concludes with an evaluation of the philosophical foundation of institutional education regarding goals, curriculum, the teacher, the learner, learning strategies, school environment, administrative policies and practices, and a study of incorporation of principles into practice.

### **RELP 1201 Urban Ministerial Placement I**

This course encompasses direct field experience in an urban church in the cities of Africa providing an understanding of the dynamics of church life, mission and organization in the urban and sub urban setting. The course will be enriched by visits to different churches in the city.

### **RELP 3302 Urban Ministerial Placement II**

Each student is required to conduct and participate in all aspects of a public evangelistic campaign as well as the process and procedures of church planting in the city. The focus is for the student to endeavor to involve all the members of the city church in soul winning, church planting and nurturing. The course will take place in the city as arranged by the department, the student and the host organization.

## School of Theology & Religious Studies

**Dean Worancha Gebre**, Professor, PhD (Dev. Education) (CLSU, Philippines), DPTH (Mission & Evang.) (Adventist International Institute of Advanced Stud., Philippines), MAPTh (Mission and Evang.), (Adventist International Institute of Advanced studies, Philippines), BA (Theol.), BSEd (UEAB, Kenya).

### Full-time Faculty

**Anthony Achiga**, MTh, PG Cert. (Biblical Lang.) (Wales Lampeter, UK); Cert. Christian Muslim Stud. (Andrews US), BTh (Bugema), Dip Ed (Kyambogo).

**Anyona O. Wycliffe**, PhD (Sociology) (Kuvempu, India), MA (Biblical Stud.) (Andrews, US), BTh (Spicer Memorial, India).

**Harelimana Javan**, DMin (Philippine Christian University, Philippines), MMin. (Adventist International Institute of Advanced Studies, Philippines), BTh (Bugema).

**Kemunto O. Isabella**, MA (Chaplaincy) (AUA, Kenya), BA (Ed) (Kenyatta).

**Maka N. Moses**, PhD (Old Test. Exeg. & Theol.) (Sahmyook, South Korea), MA (Newbold, UK), BTh (Spicer Memorial College, India), Dip. Hotel & Tourism Mgt (National College of Bus. Stud).

**Ndekeja M. Daudi**, DMin. (Global Mission Leadership) (Andrews, US), Masters in Pastoral Theol. (AUA, Kenya), BA (Theol. (UEAB, Kenya).

**Turyomurugendo Aaron**, MA (Rel) (Adventist International Institute of Advanced Studies, Philippines), BTh (Bugema), Teachers' Cert. (Buwalasi TC).

**Twesigye Joseph**, MA (Pastoral Min.) (Andrews, USA - Solusi Campus), BTh (Bugema).

# **INSTITUTE OF PROFESSIONAL GROWTH (IPG)**

## INSTITUTE OF PROFESSIONAL GROWTH

**Director:** Mrs. Esther K. Mugerwa, M. Ed. English Language and Literature Education; BA English and Literature with a concurrent Diploma in Education.

**Assistant Director:** Mrs. Gracia Manu, MA Sociology; MA Elementary Education; B. Ed.

### Program Coordinators

- |  |                           |
|--|---------------------------|
| • Primary:                               | Mr. John Ssemugooma       |
| • Arts Education:                        | Mrs. Sarah N. Hayuni      |
| • Language Education:                    | Mr. David Kayiwa          |
| • Science Education:                     | Mr. Abel Magoola          |
| • Development and Humanitarian Studies:  | Mr. Joshua Busuulwa       |
| • Business:                              | Ms. Grace Birungi         |
| • Social Work and Social Administration: | Mrs. Esther Nsubuga       |
| • Theology and Religious Studies:        | Pr. Aaron Turyomurugyendo |
| • Computing and Informatics:             | Mr. Francis Lowu          |

### Philosophy

The Institute of Professional Growth is based on the belief that giving individuals opportunities to advance their careers prepares them for better service to humanity and helps them to improve their quality of life.

### Vision

The Institute of Professional Growth envisions graduates whose potential has been developed to the maximum after accessing educational services equivalent to traditional programs.

### Goal

To graduate professionals who will be able to compete favorably in any environment.

### Objectives of the Institute

The Institute of Professional Growth seeks to:

- Cater for individuals seeking professional and career advancement.
- Provide quality programs that will cater for the dynamic needs of the society
- Cater for those individuals who cannot fit in the regular university calendar.

### Programs of Study

The following programs already offered in the regular program, can be taken under the in-service/holiday program:

#### School of Business

Bachelor of Business Administration in Accounting

#### School of Social Sciences

- Bachelor of Arts in Development Studies
- Diploma in Development Studies (Kasese center only)
- Bachelor of Arts in Social Work and Social Administration
- Bachelor of Counseling Psychology
- Bachelor of Arts in Community Development
- Bachelor of Arts in Peace and Conflict Management
- Bachelor of Humanitarian and Disaster Management
- Certificate in Public Administration

### **School of Theology and Religious Studies**

- Bachelor of Theology
- Bachelor of Arts in Religious Studies with Chaplaincy
- Bachelor of Arts in Religious Studies with Development
- Bachelor of Arts in Religious Studies with Evangelism

### **School of Education**

- Bachelor of Arts with Education (Secondary)
- Bachelor of Science with Education (Secondary)

For details of the above programs, check under the appropriate School and Department.

The following programs are only in the in-service program:

- Bachelor of Arts with Education (Primary)
- Bachelor of Science with Education (Primary)
- Diploma in Education (Primary)
- Certificate in Early Childhood Education (CECD)
- Certificate in Bridging Early Childhood Education (ECD)

**Note:** Students taking Education need two teaching subjects in addition to the Professional Education courses. The following teaching combinations are offered under the in-service program for the degree and diploma programs - Secondary Education option:

- English and Literature (degree only)
- English and Kiswahili (degree only)
- English and Religious Education (degree only)
- Kiswahili and Religious Education (degree only)
- Kiswahili and History (degree only)
- English and Geography (degree only)
- History and Religious Education (degree and diploma)
- History and Economics (degree only)
- History and Geography (degree and diploma)
- Entrepreneurship and Religion (degree only)
- Entrepreneurship and History (degree only)
- Entrepreneurship and Geography (degree only)
- Agriculture - Double Main (degree only)
- Agriculture and Biological Sciences (degree only)
- Mathematics and Biological Sciences (degree only)
- Mathematics and Physics (degree only)
- Mathematics and Chemistry (degree only)
- Mathematics and ICT (degree only)

**The following teaching combinations are offered in the Primary Education option:**

- English and Religious Education (degree and diploma)
- English and Social Studies (degree and diploma)
- Kiswahili and Social Studies (degree only)
- Kiswahili and Early Childhood Education (degree and diploma)
- Kiswahili and Religious Education (degree and diploma)
- English and Early Childhood Education (degree and diploma)
- Early Childhood Education - Double Main (degree and diploma)
- Early Childhood Education and Religious Education (degree only)
- Social Studies and Early Childhood Education (degree only)

- Social Studies and Religious Education (Kenyan Students only; degree and diploma)
- Agriculture - Double Main (degree and diploma)
- Agriculture and Biological Sciences (degree and diploma)
- Integrated Science - Double Main (degree only)
- Mathematics and Biological Sciences (degree and diploma)
- Mathematics and Physical Sciences (diploma and degree)
- Mathematics and Physical Education (diploma and degree)

#### LIST OF CODES USED IN THE PRIMARY PROGRAMS

CPTE	-	Certificate Primary Professional Teaching Education
CECD	-	Certificate Early Childhood Development
CPSP	-	Certificate Primary School Practice
DPTE	-	Diploma Primary Professional Teaching Education
DPTM	-	Diploma Primary Teaching Methods
DPSP	-	Diploma Primary School Practice
DPLE	-	Diploma Primary Language Education
DPSP	-	Diploma Primary School Practice
DPRM	-	Diploma Primary Research Methods and Report Writing
DSST	-	Diploma Social Studies
DCRE	-	Diploma Primary Christian Religious Education
DECD	-	Diploma Early Childhood Development
DPAG	-	Diploma Primary Agriculture
DPMA	-	Diploma Primary Mathematics
DPBI	-	Diploma Primary Biological Sciences
DPPH	-	Diploma Primary Physical Sciences
DIPE	-	Diploma Primary Physical Education
BPTE	-	Bachelors Primary Teaching Education
BPTM	-	Bachelors Primary Teaching Methods
BPRP	-	Bachelors Primary Research Project
BPSP	-	Bachelors Primary School Practice
BECD	-	Bachelors Early Childhood Development
BPRE	-	Bachelors Primary Religious Education
BSST	-	Bachelors Social Studies
BPLE	-	Bachelors Primary Language Education
BPAG	-	Bachelors Primary Agriculture
BPMA	-	Bachelors Primary Mathematics
BPBI	-	Bachelors Primary Biological Sciences
BPIS	-	Bachelors Primary Integrated Science
BPSP	-	Bachelors Primary Physical Sciences

Below are the courses for the Certificate in Early Childhood Bridging course, Certificate in Early Childhood Education and for primary diploma and degree programs.



## CERTIFICATE IN EARLY CHILDHOOD DEVELOPMENT : BRIDGING COURSE

This program is for Early Childhood Development/Nursery School teachers who underwent one-year training. It is meant to provide the nECDssary bridging in order for them to enroll for a diploma in ECD.

### Four Sessions (One Year Program)

	Credit Hours
ECD Bridging courses	36
School Practice	03
Total Credit Hours	39

### ECD Bridging Courses (36 Credits)

Code	Name	LH	TH	PH	CH	CU
CEBC 1101	Intro to Early Childhood Dev't	15	30	00	30	2
CEBC 1102	Preschool Curriculum	15	30	00	30	2
CEBC 1103	Foundations of Education	15	30	00	30	2
CEBC 1104	Development Studies	30	30	00	45	3
CEBC 1105	Methods & Approaches of Working with Young Children	15	30	00	30	2
CEBC 1106	Language Development in Young Children and Functional Literacy for Caregivers	15	30	00	30	2
CEBC 1107	Mathematics Development in Young Children	30	30	00	45	3
CEBC 1108	Child Health, Nutrition, Safety and Personal Hygiene	30	30	00	45	3
CECB 1209	Cultural Education	30	30	00	45	3
CEBC 1210	Administration and Management Of ECD Centers	15	15	00	30	2
CEBC 1211	Education Technology	30	30	00	45	3
CEBC 1212	Information Communication and Technology	30	30	00	45	3
CEBC 1213	Life Skills and Values Education	30	30	00	45	3
CEBC 1214	Special Needs Education	30	30	00	45	3
CEBC 1215	Child Study and Fieldwork	30	30	00	45	3
CEBC 1216	Introduction to School Practice	30	30	00	45	3

### Practicum (3 Credits)

Code	Name	LH	TH	PH	CH	CU
CEBP 1301	School Practice (8 weeks)	00	00	00	90	3

### Suggested Schedule Uganda In-Take

Course	1 <sup>st</sup> Semester		2 <sup>nd</sup> Semester	
	Session 1	Session 2	Session 1	Session 2
	Aug	Dec	Jan	May
CEBC 1102	Intro to Early Childhood Development	2		
CEBC 1102	Preschool Curriculum	2		
CEBC 1103	Foundations of Education	2		
CEBC 1104	Development Studies	3		

CEBC	1105	Methods and Approaches of working with young Children	2			
CEBC	1106	Language Dev't in Young Children & functional Literacy for Caregivers	3			
CEBC	1107	Mathematics Development in Young Children	2			
CEBC	1108	Child Health, Nutrition, Safety and Personal Hygiene	2			
CEBC	1209	Cultural Education		3		
CEBC	1210	Admin. and Mgt of ECD Centres		2		
CEBC	1211	Educational Technology		2		
CEBC	1212	Information Communication and Technology		3		
CEBC	1213	Life Skills and values in Education			2	
CEBC	1214	Special Needs Education			2	
CEBC	1215	Child Study and Fieldwork			2	
CEBC	1216	Introduction to School Practice			2	
<b>Total Credit Hours per Session</b>			<b>09</b>	<b>09</b>	<b>10</b>	<b>08</b>

**Summer**

<b>Code</b>		<b>Course</b>		<b>CU</b>
CEBP	1301	School Practice (8 weeks)		03

## CERTIFICATE IN EARLY CHILDHOOD EDUCATION

	Credit Hours
General Education Courses	13
Professional Education Courses	18
Major Concentration Courses	45
School Practice	06
<b>Total Credit Hours:</b>	<b>82</b>

### General Education Courses (13 Credits)

Code	Name	LH	TH	PH	CH	CU
GECL 1101	Introduction to Writing Skills	30	30	00	45	3
GECH 1101	Health Principles	30	30	00	45	3
GECR 1101	Christian Beliefs	30	30	00	45	3
GECC 1101	Fundamentals of Computers and Office Applications	45	00	30	60	4

### Professional Education Courses (18 Credits)

Code	Name	LH	TH	PH	CH	CU
CPTE 1101	Early Childhood Education Methods	30	30	0	45	3
CPTE 1102	Professional Studies I	30	30	0	45	3
CPTE 2103	Foundations of Education	30	30	0	45	3
CPTE 2205	Pre-school Curriculum	30	30	0	45	3
CPTE 2104	Professional Studies II	30	30	0	45	3
CPTE 2206	Educational Technology and Display in ECD	30	30	0	45	3

### Major Concentration Courses (45 Credits)

Code	Name	LH	TH	PH	CH	CU
CECD 1101	Intro. to Early Childhood Dev't	30	30	00	45	3
CECD 1102	Child Health and Nutrition	30	30	00	45	3
CECD 1204	Cultural Education I	30	30	00	45	3
CECD 1103	Home Mgt & Family Life Education	30	30	00	45	3
CECD 1205	Child Growth and Development	30	30	00	45	3
CECD 2108	Cultural Education II	30	30	00	45	3
CECD 1207	School Practice Preparation	30	30	00	45	3
CECD 2109	Mathematics Theory and Practice	30	30	00	45	3
CECD 1206	Community Engagement	30	30	00	45	3
CECD 2110	Language Development & Teaching	30	30	00	45	3
CECD 2111	Child Study	30	30	00	45	3
CECD 2212	Special Needs Education	30	30	00	45	3
CECD 2213	Development Studies	30	30	00	45	3
CECD 2214	Pre-school Management and Admin.	30	30	00	45	3
CECD 2215	Child Care in Pre-school Institutions	30	30	00	45	3

### School Practice (6 Credits)

Code	Name	LH	TH	PH	CH	CU
CPSP 1301	School Practice I (8 weeks)	00	00	90	45	3
CPSP 2302	School Practice II (8 weeks)	00	00	90	45	3

## Suggested Course Schedule

### First Year

Course			1 <sup>st</sup> Semester		2 <sup>nd</sup> Semester	
			Session 1 Aug	Session 2 Dec	Session 1 Jan	Session 2 May
GECL	1101	Intro to Writing Skills	3			
CECD	1101	Intro to Early Childhood Dev't	3			
CPTE	1101	Early Childhood Education Methods	3			
CECD	1102	Child Health and Nutrition		3		
GECR	1101	Christian Beliefs		3		
GECH	1101	Health Principles		3		
CECD	1103	Home Mgt & Family Life Education		3		
CPTE	1102	Professional Studies I			3	
GECC	1101	Fundamentals of Computers & Office Appl.			4	
CECD	1204	Cultural Education I			3	
CECD	1205	Child Growth and Development				3
CECD	1206	School Practice Preparation				3
CECD	1207	Community Engagement				3
<b>Total Credit Hours Per Session</b>			<b>09</b>	<b>12</b>	<b>10</b>	<b>09</b>

### Summer

Code	Course	CU
CPSP 1301	School practice 1 (8 Weeks)	3

### Second Year

Course			1 <sup>st</sup> Semester		2 <sup>nd</sup> Semester	
			Session 1 Aug	Session 2 Dec	Session 1 Jan	Session 2 May
CECD	2108	Cultural Education II	3			
CECD	2109	Maths Theory & Practice	3			
CPTE	2103	Foundations of Education	3			
CECD	2110	Language Dev't & Teaching		3		
CECD	2111	Child Study		3		
CPTE	2104	Professional Studies II		3		
CECD	2212	Special Needs Education			3	
CECD	2213	Pre-school Mgt & Admin.			3	
CPTE	2205	Pre-school Curriculum			3	
CPTE	2206	Educ. Tech. & Display in ECD				3
CECD	2214	Dev't Studies				3
CECD	2215	Child Care in Pre-School				3
<b>Total Hours Per Session</b>			<b>09</b>	<b>09</b>	<b>09</b>	<b>09</b>

### Summer

Code	Course	CU
CPSP 2302	School practice 2(8 Weeks)	3

**DIPLOMA IN EDUCATION – PRIMARY**

<b>General Education Courses</b>	<b>16</b>
<b>Professional Education Courses</b>	<b>21</b>
<b>Teaching Subject 1</b>	<b>24/28</b>
<b>Teaching Subject 2</b>	<b>24/28</b>
<b>Research</b>	<b>3</b>
<b>School Practice</b>	<b>06</b>
<b>Total</b>	<b>94/98</b>

**General Education Courses (16 credits)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
GECR 1101	Christian Beliefs	30	30	00	45	3
GECH 1101	Health Principles	30	30	00	45	3
GECC 1101	Fundamentals of Comp. & Office Appl	45	00	30	60	4
GECL 1101	Introduction to Writing Skills	30	30	00	45	3
GECS 1202	Statistics	30	30	30	45	3

**Primary Education Professional Education Courses (21 credit hours)**

The following Professional Education courses are to be taken by all those who wish to study for the Diploma in Education –Primary option. Students are required to do the following professional courses:

**Core Courses (15 Credits)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
DPTE 1101	Foundations of Education	30	30	00	45	3
DPTE 1202	Psychology & Special Needs Educ.	30	30	00	45	3
DPTE 2105	Curriculum, Supervision & Evaluation	30	30	00	45	3
DPTE 2206	Communication Skills & Seminar Paper	30	30	00	45	3
DPTE 2207	Education Technology and Display	30	30	00	45	3

**Teaching Methods (6 Credits)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
DPTM 1103	General Primary Teaching Methods I	30	30	00	45	3
DPTM 1204	General Primary Teaching Methods II	30	30	00	45	3

**Research (3 Credits)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
DPRM 2101	Research Methods & Report Writing	30	30	00	45	3

**School Practice Courses (6 Credits)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
DPSP 1301	School Practice I (8 Weeks)	00	00	90	45	3
DPSP 2302	School Practice II (8 Weeks)	00	00	90	45	3

**COURSE LINE UP ACCORDING TO SUBJECTS****English Language courses (24 Credits)**

Code	Name	LH	TH	PH	CH	CU
DPLE 1101	Language Study I	30	30	00	45	3
DPLE 1102	Listening and speaking skills	30	30	00	45	3
DPLE 1203	Reading and Writing Skills	30	30	00	45	3
DPLE 2104	Literature and Drama I	30	30	00	45	3
DPLE 2105	English Grammar	30	30	00	45	3
DPLE 2206	Language Study II	30	30	00	45	3
DPLE 2207	Oral Literature and Poetry	30	30	00	45	3
DPLE 2208	Literature and Drama II	30	30	00	45	3

**Social Studies Courses (24 Credits)**

Code	Name	LH	TH	PH	CH	CU
DSST 1101	Local Environment & SST Methods	30	30	00	45	3
DSST 1102	Economic Dev't Schemes in Africa	30	30	00	45	3
DSST 1203	World Environ. & Political Issues	30	30	00	45	3
DSST 2104	Search for Ideological Identity in Ug	30	30	00	45	3
DSST 2105	Political & Economic Dev't of Ug.	30	30	00	45	3
DSST 2206	East African Political Evolution	30	30	00	45	3
DSST 2207	East African Nationalism	30	30	00	45	3
DSST 2208	Post-Independence E.A Countries	30	30	00	45	3

**Religious Education Courses (24 Credits)****Core Courses (24 Credits)**

Code	Name	LH	TH	PH	CH	CU
DCRE 1101	Origin of the Bible	30	30	00	45	3
DCRE 1102	Introduction to the Old Testament	30	30	00	45	3
DCRE 1203	Introduction to the New Testament	30	30	00	45	3
DCRE 2104	World Religions	30	30	00	45	3
DCRE 2105	Systematic Theology	30	30	00	45	3
DCRE 2206	Society and Religion	30	30	00	45	3
DCRE 2207	Religious Ethics	30	30	00	45	3
DCRE 2208	Church History	30	30	00	45	3

**Kiswahili Courses - (24 Credits)**

Code	Name	LH	TH	PH	CH	CU
DPKS 1101	Intro. to Kiswahili Grammar	30	30	00	45	3
DPKS 1102	Intro. to Writing Skills in Kiswahili	30	30	00	45	3
DPKS 1203	Intro. to Kiswahili Oral Literature	30	30	00	45	3
DPKS 2104	Intro. to Literature in Kiswahili	30	30	00	45	3
DPKS 2206	Intro. to Kiswahili Poetry	30	30	00	45	3
DPKS 2105	Dev't of Kiswahili	30	30	00	45	3
DPKS 2207	Reading & Comprehension in Kiswahili	30	30	00	45	3
DPKS 2208	Translation in Kiswahili	30	30	00	45	3

**Early Childhood Education – Single Major (24 Credits)**

Code	Name	LH	TH	PH	CH	CU
DECD 1101	Theory of Childhood Education	30	30	00	45	3
DECD 1103	Anatomy & Physiology of a Child	30	30	00	45	3
DECD 1205	Individual Learning Needs & Child Care	30	30	00	45	3

DECD	2107	Pre-Primary Curriculum	30	30	00	45	3
DECD	2211	Fieldwork and Child Study	30	30	00	45	3
DECD	2209	Child Health and Nutrition	30	30	00	45	3
DECD	2212	Civic Educ. & Community Involvement	30	30	00	45	3
DECD	2215	Business Skills	30	30	00	45	3

**Early Childhood Education – Double Main (48 Credits)**

Code	Name	LH	TH	PH	CH	CU	
DECD	1101	Theory of Childhood Education	30	30	00	45	3
DECD	1103	Anatomy and Physiology of a Child	30	30	00	45	3
DECD	1205	Individual Learning Needs & Child Care	30	30	00	45	3
DECD	2107	Pre-Primary Curriculum	30	30	00	45	3
DECD	2211	Fieldwork and Child Study	30	30	00	45	3
DECD	2109	Child Health and Nutrition	30	30	00	45	3
DECD	2212	Civic Educ. & Community Involvement	30	30	00	45	3
DECD	1102	Play as an Avenue of Learning	30	30	00	45	3
DECD	2215	Business Skills	30	30	00	45	3
DECD	1104	Language Dev't & Teaching in ECD	30	30	00	45	3
DECD	1206	Mathematics Education in ECD	30	30	00	45	3
DECD	2108	Cultural Education	30	30	00	45	3
DECD	2213	Administration and Mgt of Pre-Primary Educ.	30	30	00	45	3
DECD	2110	Assessment in ECD	30	30	00	45	3
DECD	2214	Children's Rights & Responsibilities	30	30	00	45	3
DECD	2216	Environmental Education	30	30	00	45	3

**Physical Education Courses (24 credits)**

Code	Name	LH	TH	PH	CH	CU	
DIPE	1101	History, Appl. & Dev't of PE & Sports	30	30	00	45	3
DIPE	1102	Games of Low Organization & Methods	30	30	00	45	3
DIPE	1203	Teaching and Coaching Basket, Volley, Soccer and First Aid	15	00	60	45	3
DIPE	2104	Teaching & Coaching Athletics, Gymnastics, Handball & Netball	15	00	60	45	3
DIPE	2206	Anatomy & Physiology, Appl. of PE	30	30	00	45	3
DIPE	2105	System, Organization & Mgt' of PE & Sports	30	30	00	45	3
DIPE	2207	Curriculum Planning & Evaluation in PE	30	30	00	45	3
DIPE	2208	Intro. to Sports Psychology & Sociology	30	30	00	45	3

**Physical Science courses (28 Credits)**

Code	Name	LH	TH	PH	CH	CU	
DPPH	1101	Mechanics and properties of Matter	30	30	00	45	3
DPPH	1102	Sound and Optics	30	30	00	45	3
DPPH	1103	Electricity and Magnetism	30	30	00	45	3
DPPH	2104	Chemical Kinetics and Equilibrium	30	30	00	45	3

DPPH	2208	Atomic Structure and Periodicity	30	30	00	45	3
DPPH	2105	Modern Physics	30	30	00	45	3
DPPH	2207	Fundamentals of Organic Chemistry	30	30	00	45	3
DPPH	2106	General Chemistry Practical	00	00	30	15	1
DPPH	2209	Environmental Resources & Mgt	30	30	00	45	3

**Cognate (3 Credits)**

Code	Name	LH	TH	PH	CH	CU	
DPSE	2210	Intro to Techniques in Science Educ.	30	30	00	45	3

**Mathematics Courses (24 Credits)**

Code	Name	LH	TH	PH	CH	CU	
DPMA	1101	Number Concepts	30	30	00	45	3
DPMA	1102	Algebraic Structures	30	30	00	45	3
DPMA	1203	Introduction to Calculus	30	30	00	45	3
DPMA	2104	College Algebra	30	30	00	45	3
DPMA	2206	Applied Calculus	30	30	00	45	3
DPMA	2105	Probability	30	30	00	45	3
DPMA	2207	Matrices	30	30	00	45	3
DPMA	2208	Vectors in 2-D/3-D	30	30	00	45	3

**COURSE LINE UP ACCORDING TO SUBJECTS****Agriculture Single Main (24 Credits)**

Code	Name	LH	TH	PH	CH	CU	
DPAG	1101	Intro to Agric. Educ. & Extension	30	30	00	45	3
DPAG	1102	Introduction to Soil Science	30	30	00	45	3
DPAG	1203	Principles of Crop Production	30	30	00	45	3
DPAG	2107	Intro. to Agricultural Economics	30	30	00	45	3
DPAG	2204	Crop Protection	30	30	00	45	3
DPAG	2209	Animal Production and Mgt	30	30	00	45	3
DPAG	2212	Intro to Animal Nutrition & Feeding	30	30	00	45	3
DPAG	2215	Agric. Engineering & Mechanization	30	30	00	45	3

**Agriculture Double Main (48 Credits)**

Code	Name	LH	TH	PH	CH	CU	
DPAG	1101	Intro to Agric. Educ. & Extension	30	30	00	45	3
DPAG	1103	Introduction to Soil Science	30	30	00	45	3
DPAG	1104	Principles of Crop Production	30	30	00	45	3
DPAG	2107	Intro. to Agricultural Economics	30	30	00	45	3
DPAG	2211	Crop Protection	30	30	00	45	3
DPAG	2209	Animal Production and Mgt	30	30	00	45	3
DPAG	2212	Intro to Animal Nutrition & Feeding	30	30	00	45	3
DPAG	1102	Intro to Animal Breeding & Repro.	30	30	00	45	3
DPAG	2215	Agric. Engineering & Mechanization	30	30	00	45	3
DPAG	1104	Introduction to Animal Diseases	30	30	00	45	3
DPAG	1106	Soil and Water Conservation	30	30	00	45	3
DPAG	2108	Intro. to Farm Structures & Buildings	30	30	00	45	3
DPAG	2210	Forage & Pasture Management	30	30	00	45	3
DPAG	2214	Non-ruminant Production	30	30	00	45	3
DPAG	2216	Intro to Soil Fertility & Plant Nutrients	30	30	00	45	3
DPSE	2210	Intro. to techniques in science educ.	30	30	00	45	3



**Mathematics (24 Credits)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
DPMA 1101	Number Concepts	30	30	00	45	3
DPMA 1102	Algebraic Structures	30	30	00	45	3
DPMA 1203	Introduction to Calculus	30	30	00	45	3
DPMA 2104	College Algebra	30	30	00	45	3
DPMA 2206	Applied Calculus	30	30	00	45	3
DPMA 2105	Probability	30	30	00	45	3
DPMA 2207	Matrices	30	30	00	45	3
DPMA 2208	Vectors in 2-D/3-D	30	30	00	45	3

**Biological Sciences (24 Credits)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
DPBI 1101	Animal Physiology & Coordination	30	30	00	45	3
DPBI 1102	Plant Physiology and Morphology	30	30	00	45	3
DPBI 1203	Genetics & Evolution	30	30	00	45	3
DPBI 2104	Food and Nutrition	30	30	00	45	3
DPBI 2206	Primary Health Care (PHC)	30	30	00	45	3
DPBI 2105	Classification of Organisms	30	30	00	45	3
DPBI 2207	Basic Ecology	30	30	00	45	3

**Cognate (3 Credits)**

<b>Code</b>	<b>Name</b>	<b>LH</b>	<b>TH</b>	<b>PH</b>	<b>CH</b>	<b>CU</b>
DPBI 2209	Environmental Resources & Mgt	30	30	00	45	3
DPSE 2210	Intro. to Techniques in Science Educ.	30	30	00	45	3

## SUGGESTED COURSE SCHEDULE FOR THE DIPLOMA IN EDUCATION- PRIMARY

First Year Course			1 <sup>st</sup> Semester		2 <sup>nd</sup> Semester	
			Session 1 Aug	Session 2 Dec	Session 1 Jan	Session 2 May
GECL	1101	Intro. to Writing Skills	3			
DPTE	1101	Foundations of Education	3			
DPLE	1101	Language Study I	3			
DPKS	1101	Intro. to Kiswahili Grammar	3			
DSST	1101	Local Environ & SST Methods	3			
DCRE	1101	Origin of the Bible	3			
DECD	1101	Theory of Childhood Educ.	3			
DECD	1102	Play as an Avenue of Learning	3			
DPAG	1101	Intro. to Agricultural Educ. & Extension	3			
DPAG	1102	Intro to Animal Breeding & Reproduction	3			
DPMA	1101	Number Concepts	3			
DPBI	1101	Animal Physiology & Coordination	3			
DPPH	1101	Mechanics & Properties of Matter	3			
DIPE	1101	Hist., Appl. & Dev't of PE & Sports	3			
GECR	1101	Christian Beliefs		3		
DPLE	1102	Listening & Speaking Skills		3		
DPKS	1102	Intro. to Writing Skills in Kiswahili		3		
DSST	1102	Econ. Dev't Schemes in Africa		3		
DCRE	1102	Intro. to the Old Testament		3		
DECD	1103	Anatomy & Physiology of a Child		3		
DECD	1104	Language Dev't & Teaching in ECD		3		
DPAG	1103	Intro. to Soil Science		3		
DPAG	1107	Intro. to Animal Diseases		3		
DPMA	1102	Algebraic Structures		3		
DPBI	1102	Plant Physiology and Morphology		3		
DPPH	1102	Sound and Optics		3		
DIPE	1102	Games of Low Organisation		3		
GECC	1101	Fundamentals of Computers & office Appl.			4	
DPTM	1103	General Primary Teaching Methods I			3	
DPTE	1102	Psychology and Special Needs Education			3	
DPMA	2105	Probability			3	
DPTM	1104	General Primary Teaching Methods II				3
DPLE	1203	Reading and Writing Skills				3
DPKS	1203	Introduction to Kiswahili Oral Literature				3
DSST	1203	Local Environment and political Issues				3
DCRE	1203	Introduction to the New Testament				3
DECD	1205	Individual Learning needs and Child Care				3

DECD	1206	Mathematics education in ECD				3
DPAG	1205	Principles of Crop Production				3
DPAG	1206	Soil and Water Conservation				3
DPMA	1203	Introduction to Calculus				3
DPBI	1203	Genetics and Variation				3
DPPH	1203	Electricity and Magnetism				3
DIPE	1203	Teaching and Coaching Basket, Volley, Soccer, First Aid				3
<b>Total Hours Per Session</b>			<b>12</b>	<b>09</b>	<b>10/13</b>	<b>12</b>

**Summer**

<b>Code</b>	<b>Course</b>	<b>CU</b>
DPSP 1301	School practice 1(8 Weeks)	3
<b>Total</b>		<b>3</b>

**Second Year**

Course	1 <sup>st</sup> Semester		2 <sup>nd</sup> Semester	
	Session 1	Session 2	Session 1	Session 2
	Aug	Dec	Jan	May
GECH 1101	Health Principles	3		
DPRM 2101	Research Methods & Report Writing	3	3	
DPLE 2104	Literature and Drama I	3		
DSST 2104	The Search for Ideological Identity in Uganda	3		
DCRE 2104	World Religions	3		
DECD 2107	Pre-Primary Curriculum	3		
DECD 2108	Cultural Education	3		
DPAG 2107	Intro. to Agricultural Educ.	3		
DPAG 2108	Intro. to Farm Structures & Buildings	3		
DPMA 2104	College Algebra	3		
DPBI 2104	Food and Nutrition	3		
DPPH 2104	Chemical Kinetics & Equilibria	3		
DIPE 2104	Teaching & Coaching Athletics, Gymnastics, Handball & Netball	3		
DPTE 2105	Curriculum, Supervision & Evaluation		3	
DPTE 2106	Communication Skills & Seminar Paper Presentation		3	
DPLE 2105	English Grammar		3	
DPKS 2105	Development of Kiswahili		3	
DSST 2106	East African Political Evolution		3	
DCRE 2105	Systematic Theology		3	
DECD 2109	Child Health and Nutrition		3	
DECD 2110	Assessment in ECD		3	
DPAG 2109	Animal Production & Mgt		3	
DPAG 2110	Forage and Pasture Mgt		3	
DPMA 2105	Probability		3	
DPBI 2105	Classification of Organisms		3	
DPPH 2105	Modern Physics		3	

DIPE	2105	System, Organization and Mgt. of PE and Sports	3			
DPPH	2106	General Chemistry Practical	1			
DPLE	2206	Language Study II		3		
DPLE	2207	Oral Literature and Poetry		3		
DPKS	2206	Intro to Kiswahili Poetry		3		
DPKS	2207	Reading & Comprehension in Kiswahili		3		
DSST	2207	East African Nationalism		3		
DCRE	2206	Society and Religion		3		
DCRE	2207	Religious Ethics		3		
DECD	2211	Field work and Child Study		3		
DECD	2212	Civic Education & Community Involvement		3		
DECD	2213	Admin. and Mgt of Pre-Primary Educ.		3		
DECD	2214	Children's Rights & Responsibilities		3		
DPAG	2211	Crop Protection		3		
DPAG	2212	Intro. to Animal Nutrition & Feeding		3		
DPAG	2214	Non-Ruminant Production		3		
DPMA	2206	Applied Calculus		3		
DPMA	2207	Matrices		3		
DPBI	2206	Primary Health Care		3		
DPBI	2207	Basic Ecology		3		
DPPH	2208	Atomic Structure and Periodicity		3		
DPPH	2209	Fundamentals of Organic Chemistry		3		
DIPE	2206	Anatomy and Physiology, Appl of PE		3		
DIPE	2207	Curriculum Planning and Evaluation in PE		3		
DPTE	2207	Education Technology and Display		3		
DPLE	2208	Literature and Drama II			3	
DPKS	2208	Translation in Kiswahili			3	
DSST	2208	Post Independent East African Countries			3	
DCRE	2208	Church History			3	
DECD	2215	Business Skills			3	
DECD	2216	Environmental Education			3	
DPAG	2215	Agricultural Engineering and Mechanisation			3	
DPAG	2216	Intro to Soil Fertility and Plant Nutrients			3	
DPMA	2208	Vectors in 2-D/3-D			3	
DPPH	2209	Environmental Resources and Management			3	
DIPE	2208	Intro to Sports Psychology and Sociology			3	
DPSE	2210	Intro to Techniques in Science Education			3	
<b>Total Hours Per Session</b>			<b>12</b>	<b>12/13</b>	<b>12</b>	<b>9/12</b>

**Summer**

Course Code	Course Title	CU
DPSP 2302	School Practice II (8 Weeks)	3

## PRIMARY DEGREE PROGRAMS

General Education Courses	21
Professional Education Courses	39
Teaching Subjects 1	33
Teaching Subject 2	33
Educational Research Project	03
School Practice	06
<b>Total Credit Hours:</b>	<b>133</b>

### Vocational Courses

Code	Name	LH	TH	PH	CH	CU
GECV 1201	Motor Vehicle Driving	15	00	30	30	2
GECV 1202	Tailoring	15	00	30	30	2
GECV 1203	Catering	15	00	30	30	2
GECV 1204	Music Appreciation	15	00	30	30	2

### General Education Courses (21 credits)

Code	Name	LH	TH	PH	CH	CU
GECL 1101	Christian Beliefs	30	30	00	45	3
GECH 1101	Health Principles	30	30	00	45	3
GECC 1101	Fundamentals of Comp. & Office Appl	45	00	45	60	4
GECL 1101	Introduction to Writing Skills	30	30	00	45	3
GECS 1202	Statistics	30	30	00	45	3
GECA 1201	Philosophy of Christian Education	30	30	00	45	3
GECV 12 --	General Vocational Course	15	30	00	30	2

### Primary Education Professional Courses (39 credit hours)

The following Professional Education courses are to be taken by all those who wish to study for the Bachelor of Arts with Education –Primary option. Students are required to do the following professional courses:

#### Core Courses (15 Credits)

Code	Name	LH	TH	PH	CH	CU
BPTE 1101	Educ. Psychology & Human Deve't	30	30	00	45	3
BPTE 1102	Curriculum Principles and Dev't	30	30	00	45	3
BPTE 1203	Principles & Methods of Primary Teaching	15	30	00	45	2
BPTE 1204	Primary Instructional Technology	30	30	00	45	3

#### Teaching Methods (6 Credits)

Code	Name	LH	TH	PH	CH	CU
BPTM 2105	General Primary Teaching Methods I	30	30	00	45	2
BPTM 2106	General Primary Teaching Methods II	30	30	00	45	2
BREM 2201	Education Research Methods	30	30	00	45	3
BPTE 2108	Classroom testing and Evaluation	30	30	00	45	3
BPTE 3109	Guidance, Counseling & Special Needs Educ.	30	30	00	45	3
BPTE 3110	Philosophy & Sociology of Education	30	30	00	45	3

BPTE	3111	Com Skills in Educ. & Professional Ethics	30	30	00	45	3
BPTE	3213	Comparative and History of Education	30	30	00	45	3
BPTE	3212	Educational Admin & Supervision OR	30	30	00	45	3
BPTE	3214	Economics and Planning of Education	30	30	00	45	3
BREP	3102	Research Project in Education	30	30	00	45	3

### School Practice Courses (6 Credits)

Code	Name	LH	TH	PH	CH	CU	
BPSP	2201	School Practice I (8 Weeks)	00	00	90	45	3
BPSP	3302	School Practice II (8 Weeks)	00	00	90	45	3

## ARTS EDUCATION (PRIMARY OPTION) DEGREE COURSES

### Early Childhood Education Courses – Single Major (33 Credits)

Code	Name	LH	TH	PH	CH	CU	
BECD	1101	Child Growth, Dev't & Rearing Practices	30	30	00	45	3
BECD	1203	Health and Nutrition in ECD	30	30	00	45	3
BECD	2105	Child Impairments and their Mgt	30	30	00	45	3
BECD	2107	Music in ECD	30	30	00	45	3
BECD	2209	Language Development in ECD	30	30	00	45	3
BECD	2211	Social Studies in ECD	30	30	00	45	3
BECD	2212	Cultural Values & Practices in ECD	30	30	00	45	3
BECD	3115	Mathematics Education in ECD	30	30	00	45	3
BECD	3117	Science Education in ECD	30	30	00	45	3
BECD	3219	Child Abuse: Related Laws & Policies	30	30	00	45	3
BECD	2221	Current Issues in ECD	30	30	00	45	3

### Early Childhood Education Courses - Double Main (66 Credits)

Code	Name	LH	TH	PH	CH	CU	
BECD	1101	Child Growth, Dev't & Rearing Practices	30	30	00	45	3
BECD	1203	Health and Nutrition in ECD	30	30	00	45	3
BECD	1102	Establishing a Functional Child Care Center & the Stakeholders' Forum	30	30	00	45	3
BECD	1204	Parenting and Mentoring Skills Dev't	30	30	00	45	3
BECD	2105	Child Impairments and their Mgt	30	30	00	45	3
BECD	2106	Character, Personality & Dev't	30	30	00	45	3
BECD	2107	Music in Early Childhood Education	30	30	00	45	3
BECD	2209	Language Dev't in Early Childhood Education	30	30	00	45	3
BECD	2108	Intelligence and Learning Theories	30	30	00	45	3
BECD	2211	Social Studies in ECD	30	30	00	45	3
BECD	2212	Cultural Practices & Practices in ECD	30	30	00	45	3
BECD	2210	Thematic-Based Reading & Writing	30	30	00	45	3
BECD	2213	Education for sustainable Dev't	30	30	00	45	3
BECD	2214	Child-care, Terrain and Observation	30	30	00	45	3

BECD	3115	Mathematics Education in ECD	30	30	00	45	3
BECD	3117	Science Education in ECD	30	30	00	45	3
BECD	3219	Child Abuse, Related Laws & Policies	30	30	00	45	3
BECD	3116	Aptitude Dev't, Learning Games, Materials & Media	30	30	00	45	3
BECD	3221	Current Issues in ECD	30	30	00	45	3
BECD	3118	Evaluating Children's work	30	30	00	45	3
BECD	3220	Child Related NGO's & their Functions	30	30	00	45	3
BECD	3222	Providers' Performance Skills, Tasks & Traits	30	30	00	45	3

### Religious Education courses (33 Credits)

Code	Name	LH	TH	PH	CH	CU	
BPRE	1101	Introduction to the Bible	30	30	00	45	3
BPRE	1102	World Religions	30	30	00	45	3
BPRE	1103	Marriage and Family	30	30	00	45	3
BPRE	2104	Pentateuch and Hexateuch	30	30	00	45	3
BPRE	2205	African Traditional Religious Beliefs	30	30	00	45	3
BPRE	2206	Old Testament Prophets	30	30	00	45	3
BPRE	2207	Studies in the Gospels	30	30	00	45	3
BPRE	3108	Psalms and Wisdom Literature	30	30	00	45	3
BPRE	3109	Religious Ethics	30	30	00	45	3
BPRE	3210	Acts and Epistles	30	30	00	45	3
BPRE	3211	History of the Christian Church	30	30	00	45	3

### Social Studies Courses (33 Credits)

Code	Name	LH	TH	PH	CH	CU	
BSST	1101	World Regions & Man's Environ.	30	30	00	45	3
BSST	1202	Population, Resources & Dev't	30	30	00	45	3
BSST	2103	Evolution of African Societies	30	30	00	45	3
BSST	2104	Rural Economy, Self-Reliance in East Africa	30	30	00	45	3
BSST	2205	Economic & Political Integration in Africa	30	30	00	45	3
BSST	2206	World Affairs since 1945	30	30	00	45	3
BSST	2207	Map, Photo and Fieldwork Skills	30	30	00	45	3
BSST	3108	Africa after Independence: Challenges	30	30	00	45	3
BSST	3109	Government and Politics in EA	30	30	00	45	3

### Electives (6 Credits)

Code	Name	LH	TH	PH	CH	CU	
BSST	3210	Europe: Technically Developed Economy	30	30	00	45	3
BSST	3211	USA: Developed Enterprise Economy	30	30	00	45	3
BSST	3212	Asia: Population, Resources & Dev't	30	30	00	45	3

## LANGUAGE EDUCATION COURSES

### English Language Education Courses (33 Credits)

#### Core Courses (27 Credits)

Code	Name	LH	TH	PH	CH	CU
BPLE 1101	Intro to Language theories & Learning	30	30	00	45	3
BPLE 1202	Intro to Linguistics, Stylistics & Lit	30	30	00	45	3
BPLE 2103	The structure of selected African Languages	30	30	00	45	3
BPLE 2104	Professional English	30	30	00	45	3
BPLE 2205	Advanced Grammar	30	30	00	45	3
BPLE 2206	Literature in General (Written)	30	30	00	45	3
BPLE 2207	Advanced Language skills	30	30	00	45	3
BPLE 3108	Literary Creative Arts	30	30	00	45	3

#### Electives (6 credit hours)

Code	Name	LH	TH	PH	CH	CU
BPLE 3110	Language in society & Language Planning	30	30	00	45	3
BPLE 3111	Adult Language Learning OR	30	30	00	45	3
BPLE 3112	African Oral Literature	30	30	00	45	3

### Kiswahili Courses (33 Credits)

Kiswahili Primary Degree shares the Courses for Kiswahili secondary degree. Below is the course line-up; for course descriptions, check under Language Education Department section.

Code	Name	LH	TH	PH	CH	CU
BKSW 1101	Kiswahili Oral Literature	30	30	00	45	3
BKSW 1202	History & Dev't of Kiswahili	30	30	00	45	3
BKSW 1203	Kiswahili Phonology	30	30	00	45	3
BKSW 2104	Kiswahili Poetry	30	30	00	45	3
BKSW 2205	Kiswahili Morphology	30	30	00	45	3
BKSW 2206	Kiswahili Novel and Play	30	30	00	45	3
BKSW 2207	Translation: Theory & Practice in Kiswahili	30	30	00	45	3
BKSW 3108	Kiswahili Syntax	30	30	00	45	3
BKSW 3109	Kiswahili & Comparative Bantu Linguistics	30	30	00	45	3
BKSW 3210	Semantics & Pragmatics in Kiswahili	30	30	00	45	3
BKSW 3211	Creative Writing in Kiswahili	30	30	00	45	3

### Suggested Course Schedule

#### First Year Course

	1 <sup>st</sup> Semester		2 <sup>nd</sup> Semester	
	Session 1	Session 2	Session 1	Session 2
	Aug	Dec	Jan	May
GECL 1101	Intro. to Writing Skills	3		
GECH 1101	Health Principles	3		
BPTE 1101	Educ. Psychology			



		& Human Dev't	3				
GECV	12...	Vocational Course		2			
GECA	1201	Philosophy of Christian Education		3			
GECR	1101	Christian Beliefs		3			
BPTE	1102	Curriculum Principles & Dev't		3			
BECD	1101	Child growth, Dev't & Rearing practices		3			
BECD	1102	Establishing a Functional Child Care Centre & the Stakeholders' Forum		3			
BPRE	1101	Introduction to the Bible		3			
BSST	1101	World Regions & Man's Environment		3			
BPLE	1101	Intro. to Language Theories & Learning		3			
BKSW	1101	Kiswahili Oral Literature		3			
GECC	1101	Fundamentals of Computers & Office Application			4		
BPTE	1203	Principles & Methods of Primary Teaching			2		
BPTE	1204	Primary Instructional Technology			3		
GECS	1202	Statistics				3	
BECD	1203	Health and nutrition in ECD				3	
BECD	1204	Parenting and Mentoring Skills				3	
BPRE	1102	World Religions				3	
BSST	1202	Population, Resources and Development				3	
BPLE	1202	Introduction to Linguistics, Stylistics and Literature				3	
BKSW	1202	History and Development of Kiswahili				3	
<b>Total</b>			<b>11</b>	<b>12</b>	<b>10</b>	<b>12</b>	

**Second Year Course**

		1 <sup>st</sup> Semester		2 <sup>nd</sup> Semester	
		Session 1	Session 2	Session 1	Session 2
		Aug	Dec	Jan	May
BPTM	2105	General Primary Teaching Methods I	3		
BECD	2105	Child impairments & their Mgt	3		
BECD	2106	Character and Personality Development	3		
BPRE	1103	Marriage and Family	3		
BSST	2103	Evolution of African Societies	3		
BPLE	2103	Structure of Selected African Languages	3		
BKSW	2103	Kiswahili Phonology	3		
BPTM	2106	General Primary Teaching Methods II		3	
BURE	2201	Educational Research Methods		3	
BECD	2107	Music in ECD		3	
BECD	2108	Intelligence and Learning Theories		3	
BPRE	2104	Pentateuch and Hexateuch		3	
BSST	2104	Rural Economy & Self-Reliance in East Africa		3	

BPLE	2104	Professional English	3			
BKSW	2104	Kiswahili Poetry	3			
BPTE	2208	Classroom Testing & Evaluation	3			
BECD	2209	Language Development in ECD		3		
BECD	2210	Thematic-Based Reading and Writing		3		
BPRE	2205	African Traditional Religious Beliefs		3		
BSST	2205	Economic and Political integration in Africa		3		
BPLE	2205	Advanced Grammar		3		
BKSW	2205	Kiswahili Morphology		3		
BECD	2211	Social Studies in ECD		3		
BECD	2212	Cultural Values and Practices in ECD			3	
BECD	2213	Education for Sustainable Development			3	
BECD	2214	Child care, Terrain and Observation			3	
BPRE	2206	Old Testament Prophets			3	
BPRE	2207	Studies in the Gospels			3	
BSST	2206	World Affairs Since 1945			3	
BSST	2207	Map, Photo and Fieldwork Skills			3	
BPLE	2206	Literature in General (Written)			3	
BPLE	2207	Advanced Language Skills			3	
BKSW	2206	Kiswahili Novel and Play			3	
BKSW	2207	Translation: Theory and Practice in Kiswahili			3	
<b>Total</b>			<b>9</b>	<b>12</b>	<b>9</b>	<b>12</b>

**Summer**

<b>Code</b>	<b>Course</b>	<b>CU</b>
BPSP 2301	School Practice I (8 weeks)	3
BREP 3102	Research Project in Education	3
<b>Total</b>		<b>6</b>

**Third Year  
Course**

<b>Course</b>	<b>1<sup>st</sup> Semester</b>		<b>2<sup>nd</sup> Semester</b>	
	Session 1	Session 2	Session 1	Session 2
	Aug	Dec	Jan	May
BPTE 3109	Guidance Counselling & Special Needs Educ.	3		
BPTE 3110	Philosophy & Sociology of Education	3		
BECD 3115	Mathematics Education in ECD	3		
BECD 3116	Aptitude Dev't, Learning Games, Materials & Media	3		
BPRE 3108	Psalms & Wisdom Lit.	3		
BSST 3108	Africa after Independence Challenges	3		
BPLE 3108	Literary Creative Arts	3		
BKSW 3108	Kiswahili Syntax	3		
BPTE 3111	Comm. Skills & Professional Ethics in Education		3	
BECD 3117	Science Education in ECD		3	
BECD 3118	Evaluating Children's Work		3	
BPRE 3109	Religious Ethics		3	
BSST 3109	Government & Politics in East Africa		3	

BPLE	3109	Language Curriculum Design & Dev't	3				
BKSW	3109	Kiswahili & Comparative Bantu Linguistics	3				
BPTE	3212	Educational Administration & Supervision OR					
BPTE	3214	Economics and Planning of Education					3
BKSW	3210	Semantics and Pragmatics in Kiswahili					3
BECD	3212	Child Abuse, Related Laws and Policies					3
<b>Elective</b>							
BSST	3210	Europe: Developed Economy OR					
BSST	3211	USA: Developed Enterprise Economy OR					
BSST	3212	Asia: Population, Resources and Development					3
<b>Elective</b>							
BPLE	3110	Language in Society: Language Planning OR					
BPLE	3111	Adult Language Learning OR					
BPLE	3112	African Oral Literature					3
BPRE	3210	Acts and Epistles					3
BPTE	3213	Comparative and History of Education					3
BECD	3221	Current Issues in ECD					3
BECD	3222	Providers' Performance Skills, Tasks, and Traits					3
BPRE	3211	History of the Christian Church					3
BKSW	3211	Creative Writing in Kiswahili					3
<b>Elective</b>							
BSST	3210	Europe: Developed Economy OR					
BSST	3211	USA: Developed Enterprise Economy OR					
BSST	3212	Asia: Population, Resources and Development					3
<b>Elective</b>							
BPLE	3110	Language in Society: Language Planning OR					
BPLE	3111	Adult Language Learning OR					
BPLE	3112	African Oral Literature					3
<b>Total</b>			<b>12</b>	<b>9</b>	<b>9</b>		<b>9</b>
<b>Summer</b>							
<b>Code</b>		<b>Course</b>					<b>CU</b>
BPSP	3302	School Practice II (8 Weeks)					3

## CERTIFICATE IN ENGLISH LANGUAGE PROFICIENCY

### Context of Program

The Language Education Department developed an intensive English program as a result of the increasing number of students from non-English speaking countries of Uganda's neighborhood and beyond. This problem is influencing negatively on their academic standards of not only the students but the university as a whole. The identification of this problem warranted the organizing of a program to solve it. And so faculty of Language Education Department of Bugema University designed a program for these students. The program mainly targets students from countries like South Sudan, Ethiopia, Rwanda, Burundi, Democratic Republic of Congo and others.

### Justification of the Program

Intensive English addresses the issue of enabling the non-English speakers to be taught English before they start their programs (or even to learn English as another language), to the extent that they will be able to speak and write English reasonably well during their academic life in the university and beyond. Less than this step, the students are likely to be rebounded to repetition, dismissal, very low academic grades and many other such negative consequences. Not only will this affect the students but also the university as a whole.

### Vision of the Program

To make students from non-English speaking communities gain competence in communicating using English language.

### Goal

The goals for this program are:

- To help prepare students for under graduate and graduate programs.
- To help prepare students to communicate in English.

### Program Objectives

The program aims to:

- Make non-English speaking students be able to speak English.
- Make non-English speaking students be able to read English texts.
- Make non-English speaking students be able to write in English.
- Make non-English speaking students be gain listening skills.

### Beneficiaries

The targeted beneficiaries of this program are the students from non-English speaking backgrounds who have come to do their higher education here at Bugema University or expect to continue to any other institutions of higher learning.

### Program Learning Outcomes

By the end of the program, students will be expected to be able to:

- Read English texts.
- Write letters, essays, CVs narratives, assignments, exams etc.
- Speak English reasonably well.
- Listen and comprehend English communications.
- Generally, be able to communicate in English.

## Evaluation

As a university program, Intensive English will be evaluated on a daily basis. It will also involve periodic evaluation (continuous assessment) through classroom exercises, assignments and examinations at the end of each semester. Exams will be both oral and written.

## Entry Requirements

To do Intensive English, students must first have the minimum university entry requirements of their countries of origin; or have 2 principal passes at A-Level. Students must have performed well in the languages of instruction of their countries. They will have to first be given a placement test before joining the program.

## Program Duration

The program takes a minimum of one semester to one academic year (which is made up of two semesters). Summer program will only be available on request and if there are enough clients to sustain it. It is therefore optional.

## Requirements for Completion

A student must pass all required courses for graduation.

The total number of credit units to be covered is 18 done in one semester (or year of two semesters with nine credit hours each semester).

A minimum grade of D+ is required for each course the student has done.

On completion of this program, students will be awarded a certificate of completion.

## English Language Proficiency Courses

English Language Proficiency program has the following courses: (36 Cr)

Code	Name	LH	TH	PH	CH	CU
ENGL 1101	Sound Pattern, Word Formation & Vocabulary	60	30	30	90	6
ENGL 1102	Parts of Speech	60	60	0	90	6
ENGL 1103	Sentence Construction	60	30	30	90	6
ENGL 1204	Story Reading & Comprehension	60	30	30	90	6
ENGL 1205	Composition	60	30	30	90	6
ENGL 1206	Technical Writing	60	30	30	90	6

**NB:** Though the courses are three credit hours each, students will do intensive study and exercises for five days a week. This will help them quickly and effectively grasp the functions of the language.

## Recommended Schedule For Certificate in English Language Proficiency

Year 1	Semester 1	CU
Code	Cause	
ENGL 1101	Sound Pattern, Word Formation & Vocabulary	6
ENGL 1102	Parts of Speech	6
ENGL 1103	Sentence Construction	6
<b>Total</b>		<b>18</b>

Year 1	Semester 2	CU
Code	Cause	
ENGL 1204	Story Reading & Comprehension	6
ENGL 1205	Composition	6
ENGL 1206	Technical Writing	6
<b>Total</b>		<b>18</b>

## COURSE DESCRIPTIONS

### **ENGL 1101 Sound Pattern, Word Formation & Vocabulary**

This course introduces the non-English speaking students to the letters of the alphabet used in English language. It includes identifying the letters by name and sound. This leads to combining the letters using their sounds to form words. The course therefore builds vocabulary with their meanings, ready to understand English speakers.

### **ENGL 1102 Parts of Speech**

This is a course which identifies the groups of the words in speech in English. The course therefore deals with the characteristics of each group or rules of the game. It also includes simple exercises of reading and any other activities to practice the rules other than adding vocabulary to the students in English language.

### **ENGL 1103 Sentence Construction**

In this course, students are introduced to the five basic patterns around which most English sentences are built namely; S+V, S+V+O, S+V+Adj., S+V+Adv. and S+V+N. Students are introduced to the fact that to effectively compose any type of written work, they must first understand the proper structure of sentences.

### **ENGL 1204 Story Reading & Comprehension**

This course deals with good and poor reading habits including vocalization and sub-vocalization. It emphasizes further reading as a skill but more especially reading for comprehension. Strategies for reading before, during and after reading a piece of writing will also be emphasized.

### **ENGL 1205 Composition**

This is an intensive writing course designed to develop the writing skill for students to be able to explain, describe and narrate incidents. Students will have situational compositions for a start and progress into compositions of creativity.

### **ENGL 1206 Technical Writing**

This course is designed to train students in writing basic official (and non-official) documents. Areas of study include writing formal (and informal) letters, memorandums, Curriculum Vitae, reports, speeches, adverts, giving directions and others. Exercises will be done in and out of class. As a result, students will be expected to exhibit their competence in communicating using any of these writing forms.

## PRIMARY SCIENCE EDUCATION DEGREE PROGRAMS

### Agriculture Courses - Single Major (33 Credit Units)

Code	Name	LH	TH	PH	CH	CU
BPAG 1101	Intro. Agronomy & Crop Physiology	30	30	0	45	3
BPAG 1103	Intro. Biochemistry	30	30	0	45	3
BPAG 2105	Intro. to Fundamentals of Crop Protection	30	15	15	45	3
BPAG 2107	Intro. to Soil Science & Soil Fertility	30	15	15	45	3
BPAG 2209	Intro to Livestock Mgmt & Ruminant Production	30	15	15	45	3
BPAG 2211	Annual Crop Agronomy	30	15	15	45	3
BPAG 2212	Intro to Agric. Economics & Farm Mgt	30	30	0	45	3
BPAG 3117	Intro. to Animal Feeds and Nutrition	30	15	15	45	3
BPAG 3219	Agric. Engineering & Mechanization	30	15	15	45	3
BPAG 3220	Intro Soil Conservation, Irrigation & Drainage	30	30	0	45	3
BPAG 3223	Poultry Production	30	30	0	45	3

### Agriculture Courses - Double Main (66 Credit Units)

Code	Name	LH	TH	PH	CH	CU
BPAG 1101	Intro. Agronomy & Crop Physiology	30	30	00	45	3
BPAG 1203	Introductory Biochemistry	30	30	00	45	3
BPAG 1202	Intro. to Animal Physiology & Reproduction	30	15	15	45	3
BPAG 1204	Weed Science, Pests & Disease Management in Crops	30	15	15	45	3
BPAG 2105	Intro. to Fundamentals of Crop Protection	30	15	15	45	3
BPAG 2106	Farm Management and Marketing	30	30	00	45	3
BPAG 2107	Intro to Soil Science and Soil Fertility	30	15	15	45	3
BPAG 2209	Intro to Livestock Mgmt & Ruminant Production	30	15	15	45	3
BPAG 2108	Intro to Agriculture and the Environment	30	30	00	45	3
BPAG 2211	Annual Crop Agronomy	30	15	15	45	3
BPAG 2212	Intro to Agricultural Economics & Farm Mgt	30	30	00	45	3
BPAG 2210	Crop Breeding and Management	30	15	15	45	3
BPAG 2213	Agro-forestry and Pasture Agronomy	30	15	15	45	3
BPAG 2214	Perennial Crop Agronomy	30	15	15	45	3
BPAG 3115	Animal Improvement, Breeding & Health	15	30	00	45	2
BPAG 3117	Intro to Animal Feeds and Nutrition	30	15	15	45	3
BPAG 3219	Agricultural Engineering & Mechanization	30	15	15	45	3
BPAG 3116	Workshop Practice	00	00	30	15	1
BPAG 3220	Intro Soil Conservation, Irrigation & Drainage	30	30	00	45	3
BPAG 3118	Intro to Farm Building & Structures	30	15	15	45	3
BPAG 3221	Principles of Vegetable Production	30	30	00	45	3

BPAG	3222	Introduction to Plant Physiology	30	30	00	45	3
BPAG	3223	Poultry Production	30	30	00	45	3

**Mathematics Education Courses (33 Credit units)****Core Courses (30 Credit Units)**

Code	Name	LH	TH	PH	CH	CU
BPMA 1101	Basic School Mathematics	30	30	00	45	3
BPMA 1202	Elements of Sets and Logic	30	30	00	45	3
BPMA 2103	Introduction to Number Theory	30	30	00	45	3
BPMA 2104	Intro to Probability and Statistics	30	30	00	45	3
BPMA 2205	Introduction to Calculus	30	30	00	45	3
BPMA 2206	Intro. to Differential Calculus	30	30	00	45	3
BPMA 2207	Descriptive Statistics	30	30	00	45	3
BPMA 3108	Intro. to Numerical Methods	30	30	00	45	3
BPMA 3109	Intro. to Linear Algebra	30	30	00	45	3
BPMA 3210	Intro. to Linear Programming	30	30	00	45	3

**Electives (3 Credit Units)**

Code	Name	LH	TH	PH	CH	CU
BPMA 3211	Introduction to Integral Calculus	30	30	00	45	3
BPMA 3212	Business Mathematics	30	30	00	45	3
BPMA 3213	Introduction to Vector Calculus	30	30	00	45	3
BPMA 3214	Seminar in Mathematics	30	30	00	45	3

**Biological Science Education Courses (33 Credit units)****Core Courses (24 Credit units)**

Code	Name	LH	TH	PH	CH	CU
BPBI 1101	Health and Nutrition	30	30	00	45	3
BPBI 1102	Cells & Microscopy Practical	00	00	45	45	1
BPBI 1203	Cell & Organismal Org.	30	15	15	45	3
BPBI 2104	Plant Morphology & Physiology	30	15	15	45	3
BPBI 2105	Animal Morphology and Physiology	30	15	15	45	3
BPBI 2206	General Physiology Practical	00	00	45	45	1
BPBI 2207	Ecology and Human Environment	30	30	00	45	3
BPBI 2208	Genetics and the Origin of Life	30	30	00	45	3
BPBI 2209	Biodiversity	45	30	00	60	4

**Cognate (09 Credit Units)**

Code	Name	LH	TH	PH	CH	CU
BPAG 2107	Intro to Soil Science & Soil Fertility	30	15	15	45	3
BPAG 2209	Intro to Livestock Mgmt & Ruminant Production	30	15	15	45	3
BPIS 3212	Laboratory Organization & Mgt	30	15	15	45	3

**Physical Science Education Courses - (33 Credit units)****Core Courses (30 Credit Units)**

Code	Name	LH	TH	PH	CH	CU
BPPS 1101	Mechanics and Properties of Matter	30	30	00	45	3
BPPS 1202	Intro to Inorganic Chemistry	30	30	00	45	3
BPPS 2103	Electricity and Magnetism	30	30	00	45	3
BPPS 2105	Science, Technology and Society	30	00	00	30	2
BPPS 2206	Introduction to Organic Chemistry	30	30	00	45	3



BPPS	2207	Energy, Rate and Equilibrium	30	30	00	45	3
BPPS	2208	Chemistry of Benzene & Its Derivatives	30	30	00	45	3
BPPS	3108	Intro. to Environmental Science	30	30	00	45	3
BPPS	3109	Introduction to Chemistry Practical	00	00	45	45	1
BPPS	3211	Introduction to Thermo-dynamics	30	30	00	45	3
BPPS	2212	Waves and Optics	30	30	00	45	3

**Cognate (3 Credit Units)**

Code	Name	LH	TH	PH	CH	CU	
BPIS	3212	Laboratory Organization & Mgt	30	15	15	45	3

**Integrated Science Education Courses - (66 Credit units)**

Code	Name	LH	TH	PH	CH	CU	
BPBI	1101	Health and Nutrition	30	15	15	45	3
BPPS	1101	Mechanics and Properties of Matter	30	30	00	45	3
BPBI	1203	Cell and Organismal Organization	30	15	15	45	3
BPPS	1202	Intro.to Inorganic Chemistry	30	30	00	45	3
BPBI	2104	Plant Morphology and Physiology	30	15	15	45	3
BPBI	2106	Animal Morphology and Physiology	30	15	15	45	3
BPAG	2107	Intro. to Soil Science & Soil Fertility	30	15	15	45	3
BPPS	2103	Electricity and Magnetism	30	30	00	45	3
*BPPS	2105	Science, Technology and Society	30	30	00	45	3
BPBI	2207	Ecology and Human Environment	30	30	00	45	3
BPBI	2208	Genetics and the Origin of Life	30	30	00	45	3
BPPS	2212	Waves and Optics	30	30	00	45	3
BPAG	2209	Intro. to Livestock Mgt. & Ruminant Production	30	15	15	45	3
BPPS	2206	Introduction to Organic Chemistry	30	30	00	45	3
BPPS	2208	Energy, Rate and Equilibrium	30	30	00	45	3
BPAG	3115	Animal Improvement, Breeding & Health	30	30	00	45	3
BPIS	3108	Intro. to Environmental Science	30	30	00	45	3
BPPS	3114	Electronics	30	30	00	45	3
BPIS	3212	Laboratory Organization & Mgt	30	15	15	45	3
BPIS	3213	Seminar on Contemporary Science	15	60	00	45	3
BPAG	3222	Introduction to Plant Physiology	30	30	00	45	3
BPPS	3211	Intro to Thermodynamics	30	30	00	45	3

*\*To be taken in third year for integrated students*

**Physical Education and Sports (33 Credit units)**

Code	Name	LH	TH	PH	CH	CU	
BPPE	1101	History & Cultural Foundations of Physical Educ &Sports	30	30	00	45	3
BPPE	1202	Teaching & Coaching Soccer & Basketball	30	30	00	45	3
BPPE	1203	Sports Biomechanics & Sports Training Theories	30	30	00	45	3
BPPE	2104	Human anatomy & Exercise Physiology	30	30	00	45	3
BPPE	2105	Social, Political and Economic Influence of Physical Educ &Sports in Society	30	30	00	45	3

BPPE	2206	Planning, Mgn't & Org'n of Physical Education & Sports	30	30	00	45	3
BPPE	2207	Teaching & Coaching Netball, Volleyball & Handball	30	30	00	45	3
BPPE	3108	Safety and Injuries Mgn't in Physical Educ & Sports	30	30	00	45	3
BPPE	3109	Human Growth, Dev't, Motor Learning & Skill Acquisition	30	30	00	45	3
BPPE	3210	Teaching and Coaching Athletics & Gymnastics	30	30	00	45	3

**Electives (3 Credit Units)**

Code	Name	LH	TH	PH	CH	CU
BPPE	3211 Media, Technology & Computer Applications in Physical Education & Sports	30	30	00	45	3
BPPE	3212 Sports in the Global Community	30	30	00	45	3
BPPE	3213 Sports Psychology and Sociology	30	30	00	45	3
BPPE	3214 Teaching and Coaching Swimming, Hockey and Badminton	30	30	00	45	3

**Suggested Schedule – Science Education Degree (Primary Option)**

**Year One**

Course	1 <sup>st</sup> Semester				2 <sup>nd</sup> Semester	
	Session 1	Session 2	Session 1	Session 2		
	Aug	Dec	Jan	May		
GECL 1101	Intro. to Writing Skills	3				
GECH 1101	Health Principles & HIV/AIDS	3				
BPTE 1101	Educational Psychology & Human Dev't	3				
BPPE 1101	History & Cultural Foundations of Physical Educ & Sports				3	
GECA 1201	Philosophy of Christian Education		3			
GECS 1202	Statistics		3			
BPTE 1102	Curriculum Principles & Development		3			
BPAG 1101	Intro. Agronomy & Crop Physiology		3			
BPAG 1102	Intro. to Animal Physiology & Reproduction		3			
BPMA 1101	Basic School Mathematics		3			
BPBI 1101	Health and Nutrition		3			
BPPS 1101	Mechanics & Properties of Matter		3			
GECC 1101	Fundamentals of Computer & Office Applications				4	
BPTE 1103	Principles & Methods of Primary Teaching		2			

BPTE	1204	Primary Instructional Technology			3	
BPBI	1102	Cells and Microscopy Practical			1	
GECR	1101	Christian Beliefs			3	
BPAG	1103	Introductory Biochemistry				3
BPAG	1204	Weed Science, Pests & Disease Management in Crops				3
BPMA	1202	Elements of Sets and Logic				3
BPBI	1203	Cell and Organismal Organization				3
BPPS	1202	Introduction to Inorganic Chemistry				3
<b>Total</b>			<b>09</b>	<b>11</b>	<b>13/14</b>	<b>09</b>

**Year Two Course**

Course			1 <sup>st</sup> Semester		2 <sup>nd</sup> Semester	
			Session 1	Session 2	Session 1	Session 2
			Aug	Dec	Jan	May
BPTM	2105	General Primary Teaching Methods I	3			
BPAG	2105	Intro. to Fundamentals of Crop Protection	3			
BPPE	2104	Human Anatomy & Exercise Physiology	3			
BPAG	2106	Farm Mgt & Marketing	3			
BPMA	2103	Intro. to Number Theory	3			
BPBI	2104	Plant Morphology & Physiology	3			
BPPS	2103	Electricity & Magnetism	3			
BPTM	2106	General Primary Teaching Methods II		3		
BPTE	2108	Classroom testing & Evaluation		3		
BREM	2201	Research Methods		3		
BPPE	2105	Social, Political and Economic Influence of Physical Education and Sports in Society			3	
BPAG	2107	Intro. to Soil Science & Soil Fertility		3		
BPAG	2108	Intro. to Agriculture & the Environment		3		
BPMA	2104	Introduction to Probability & Statistics		3		
BPBI	2105	Animal Morphology & Physiology		3		
BPBI	2106	General Physiological Practical		1		
BPPS	2105	Science, Technology and Society		2		
BPAG	2209	Intro. to Livestock Mgt & Ruminant Production			3	
BPAG	2210	Crop Breeding & Improvement			3	
BPMA	2205	Introduction to Calculus			3	
BPBI	2207	Ecology & Human Environment			3	
BPPS	2206	Intro. to Organic Chemistry			3	
BPPS	2207	Energy, Rate and Equilibrium			3	
BPAG	2211	Annual Crop Agronomy			3	

BPAG	2212	Intro. to Agricultural Economics & Farm Mgt				3	
BPAG	2213	Ago-forestry & Pasture Agronomy				3	
BPPE	2206	Planning, Management and Organization of Physical Education & Sports				3	
BPAG	2214	Perennial Crop Agronomy				3	
BPMA	2206	Intro. to Differential Calculus					3
BPMA	2207	Descriptive Statistics					3
BPBI	2208	Genetics and the Origin of Life					3
BPPE	2207	Teaching and Coaching Netball, Volleyball and Handball					3
BPBI	2209	Biodiversity					4
BPPS	2212	Waves and Optics					3
BPPS	2208	Chem. of Benzene & Its Derivatives					3
<b>Total</b>			<b>09/12</b>	<b>12</b>	<b>09/10</b>		<b>13</b>

### Summer

Code		Couse		CU
BPSP	2301	School Practice I (8 weeks)		3
BREP	2301	Research Project		3
<b>Total</b>				<b>6</b>

### Year Three Course

Course	1 <sup>st</sup> Semester				2 <sup>nd</sup> Semester	
	Session 1	Session 2	Session 1	Session 2		
	Aug	Dec	Jan	May		
BPTE 3109	Guidance Counselling & Special Needs Educ.	3				
BPTE 3110	Philosophy & Sociology of Educ.	3				
BPPE 3108	Safety and Injuries Mgt in Physical Education & Sports	3				
BPAG 3115	Animal Improvement, Breeding and Health	2				
BPAG 3116	Workshop Practice	1				
BPMA 3108	Intro. to Numerical Methods	3				
BPTE 3111	Communication Skills and Professional Ethics in Educ.		3			
BPPE 3109	Human Growth , Development, Motor Learning and Skill Acquisition		3			
BPPE 1202	Teaching and Coaching Soccer, Basketball		3			
BPAG 2107	Introduction to Soil Science & Soil Fertility		3			
BPAG 3117	Intro. to Animal Feeds & Nutrition		3			
	Physical Education Courses		2			
BPAG 3118	Introduction to Farm Building and Structures		3			

BPMA	3109	Intro. to Linear Algebra	3		
BPIS	3108	Intro. to Environmental Science	3		
BPPS	3109	Intro. to Chemistry Practical	1		
BPTE	3212	Educ. Administration and Supervision OR			
BPTE	3214	Economics & Planning of Education		3	
BPPE	3210	Teaching and Coaching Athletics and Gymnastics		3	
BPPS	3109	Introduction to Chemistry Practical		1	
BPAG	3219	Agricultural Engineering and Mechanization		3	
BPPE	1203	Sports Biomechanics & Sports Training Theories		3	
BPAG	2209	Intro. to Livestock Mgt & Ruminant Production		3	
BPAG	3221	Principles of Vegetable Production		3	
BPPS	3211	Intro. to Thermodynamics		3	
BPPS	3108	Intro. to Environmental Science			3
BPTE	3213	Comparative & History of Education			3
BPAG	3220	Introductory Soil Conservation, Irrigation and Drainage			3
BPAG	3222	Intro. to Plant Physiology			3
BPMA	-----	Elective			3
BPIS	3212	Laboratory Organization & Mgt			3
BPIS	3213	Seminar on Contemporary Science			3
BPAG	3223	Poultry Production			3
Elective					3
<b>Total</b>			<b>9/12</b>	<b>13</b>	<b>12/13</b>
<b>Summer</b>					
<b>Code</b>		<b>Course</b>			<b>CU</b>
BPSP	3302	School Practice II (8 weeks)			3
<b>Total</b>					<b>3</b>

## COURSE DESCRIPTIONS

### AGRICULTURE PRIMARY DEGREE COURSES

#### **BPAG 1101 Introductory Agronomy and Crop Physiology**

Agronomy should cover environmental factors affecting crop growth and development such as temperature, rainfall, moisture, soil and biotic factors as well as cropping systems and farming systems (crop rotation, intercropping, mixed farming, sole cropping vs. row intercropping, strip cropping vs. strip intercropping, multiple cropping, following). Specific emphasis will be put on the agronomy of some important annual crops (maize, sorghum, etc), legumes (ground nuts and beans) and perennial crops (coffee, cassava, cotton, and bananas). Crop physiology will cover structure and function of plant cells, tissues and organs, water and nutrients in plants, photosynthesis, regulation of plant growth and development (environment and hormones). Practical work will include: osmosis in plant cells, growing at least two annual crops (cereal and legumes) in the demonstration farm to grasp the agronomic practices and developmental stages in plant growth (germination %, height of plants, leaf area, and total yield).

#### **BPAG 1103 Introductory Biochemistry and Genetics**

Biochemistry covers the composition of living cells (carbohydrates, fats, proteins, vitamins and water); water and its importance in life; osmosis and osmotic behavior of cells; and movement of molecules in living cells. Genetics introduces students to Mendelian genetics, gene expression and sex determination. Practical work will include: behavior of cells in solutions (isotonic, hypertonic, hypotonic solutions), examining cells under a microscope, testing for carbohydrates, proteins, vitamins, pH, etc.

#### **BPAG 1202 Introduction to Animal Physiology and Reproduction**

This course will cover the structure and function of the following systems: skeletal system, muscle system, digestive system, respiratory system, blood and tissue fluid, nervous system, and endocrine. Reproduction will cover male and female reproductive organs, the role of various hormones in reproduction, estrus cycle, gestation, and parturition. In the practical aspect, students will be given ruminant and non-ruminant animals to slaughter and study the reproductive and digestive systems, eggs to determine the quality, artificial incubation, and skeleton of an animal and poultry.

#### **BPAG 1204 Weed, Pest and Disease Management in Crops**

This course integrates the two major sources of economic losses that occur while crops are still in the field. The course will, therefore cover (i) weed science (weed identification, ecology, morphology, distribution economic importance and control using all the methods); (ii) pest management (pest identification, classification, pest outbreak, crop losses due to pests, concept of economic threshold). Emphasis will be put on pest that attack crops of economic value (coffee, cotton, maize, rice, beans, bananas, tea, ground nuts, etc.). In the practical work, students will survey weeds, collect and make weed albums, and carry out practical management using various classes of herbicides and other methods of weed control, identify common plant pests of important crops and their control.

#### **BPAG 2105 Introduction to Fundamentals of Crop Protection**

This course deals with diseases that attack economically important crops. Emphasis will be put on history of crop diseases, importance of crop diseases, causal agents (bacteria, fungi, viruses, nematodes, protozoa, phytoplasma), epidemiology (interplay of factors responsible for disease development), symptomatology, yield losses, and management of diseases. Diseases of specific crops (coffee, maize, bananas, beans, ground nuts, etc) will be dealt with in detail. Practical work will focus on pathogen identification from diseased crops (microscopic) and field identification of diseased crops.

### **BPAG 2106 Farm Management and Marketing**

This course is a brief introduction to the organization and management of agricultural enterprises. Topics include production units, power and equipment, uses of records, and factors affecting management and attainment of maximum yields and profits. Practicals will involve lessons on record keeping.

### **BPAG 2107 Introduction to Soil Science and Soil Fertility**

This course introduces the student to soil as a medium of plant growth; physical, chemical and biological properties of soil, and how soil originated, the soil classification system and reaction that influence nutrient availability; soil factors which alter the supply and availability of micro- and macronutrients to plants are studied in relation to crop productivity, soils and habitat. Practicals will involve basic soil tests. Practical work will deal with soil sampling, determining soil pH, organic matter, soil air, soil moisture content, bulk density, and compositing. Field survey will involve identifying crops with nutrient deficiencies, different types of fertilizers, and how they are applied.

### **BPAG 2209 Intro. to Livestock Mgt & Ruminant Production**

This course will cover the study of four footed domestic animals, both ruminants and non-ruminants especially cattle, goats, sheep, rabbits, and pigs. Topics to be covered will include the importance of livestock, constraints to livestock production, solutions to livestock production, breeds of cattle, sheep, goats, pigs, etc. The role of management in improving the reproduction efficiency in farm animals, and housing and breeding management: system of breeding economic traits. Other topics to be covered include: methods of breeding, prenatal and postnatal care and management of cattle, pigs, goats and sheep; care of neonate and young calves/kids/lambs/piglets; management strategies for reducing mortality in calves; age of first calving/kidding/lambing/furrowing and calving; calving/kidding/lambing/furrowing interval in cattle, goats, pigs, and sheep. Special attention will be put on dairy and beef production, record keeping, disease control and basic management procedures like management of in-calf cows/sows, goats, sheep, heifers/gilts; castration, dehorning and animal identification. Livestock products like milk, ice cream, ghee, mutton, pork, cheese, beef, skins and hides, tec, heir production and handling will be covered.

Practicals will focus on vaccination, identification, dipping, spraying, drenching, castration, dehorning, age and weight determination, record keeping and pregnancy diagnosis. Students are expected to make visits to piggeries, sheep, goats and do critical analysis of various types of managerial practices.

### **BPAG 2108 Introduction to Agriculture and the Environment**

This course introduces students to agricultural systems as ecosystems governed by the same ecological processes governing all natural systems. Students will learn about the significance of ecology, classifications of ecosystems, population structure and distribution, ecological processes controlling soil-water-plant-atmosphere interactions as well as the capture and use of solar energy in the biosphere. Students will also examine biotic interactions in agricultural systems and a variety of farming practices in the context of sustainability. Specific topics will include: impact of wind and fire on agriculture and management, impacts of fertilizer use and its impact on the environment, pesticide use and their effects on the environment, livestock production impacts on climate change, water depletion and air pollution, importance of trees and impacts of deforestation. Practical work will focus on determining plant population using quadrant method. Students will visit fields and forests to look at plant, insect and animal interactions. Students will also make field trips to ranches and commercial farms using mineral fertilizers and pesticides and fungicides.

### **BPAG 2211 Annual Crop Agronomy**

The course covers the production of cool and warm season indigenous and exotic vegetable and other annual crops. Topics will cover technology and practices applicable to production of Brassica, Solanaceae, leafy crops, cucurbit, legume, root crops, cereal crops like maize, rice, sorghum, etc. Students will work on two of the following projects: vegetable plot, legume plot, or cereal to produce two technical reports or presentations. Field trips will also be arranged.

### **BPAG 2212 Introduction to Agricultural Economics and Farm Management**

This course introduces students to agricultural economics, including the principles of scarcity, opportunity cost and choice, the price theory and production function, the price mechanism, input-output relationships, multiple resource combination, agricultural marketing and processing, fluctuation of agricultural prices and their stabilization, co-operatives, marketing boards and record keeping on farms.

### **BPAG 2210: Crop Breeding and Improvement**

This course is a brief introduction to crop improvement. Topics include the nature and goals of plant breeding, patterns of evolution in cultivated crops, plant introduction and domestication, genetic basis and methods of breeding self-pollinated and cross pollinated crops, breeding for diseases resistance, polyploidy in plant breeding and inters-specific hybridization. Practicals will focus of flower morphology and anatomy of cross pollinated and self-pollinated plants, emasculation, field trips to research institutions where there are breeding programmes.

### **BPAG 2213 Agro-forestry and Pasture Agronomy**

This course deals with the concepts, principles and practices used to cultivate trees or shrubs in association with crops and pastures. The course will use a land system that considers many aspects such as agro-forestry, rangeland, waterways, multipurpose trees, pasture agronomy, production and processing. The practical part will focus on identification and collection of pastures (grass and legume species), making hay and silage, participating in raising tree seedlings in nursery beds. Students will also make field trips to farmers' fields practicing agro-forestry.

### **BPAG 2214 Perennial Crop Agronomy**

This course will cover the history, characteristics, environmental requirements, agronomic practices, distribution, economic importance and processing of perennial crops in East Africa such as coffee, banana, sugarcane, tea, sisal or others. Pests, diseases and their control will be emphasized. Practical field trips will be organized to farms with perennial crops for students to familiarize themselves with agronomic aspects of these crops.

### **BPAG 3115 Animal Improvement, Breeding and Health**

This course is a brief introduction to the study of inheritance, mutation, animal breeding, selection practices, and inbreeding, cross breeding, line breeding, artificial insemination, embryo transfer techniques, and genetic – environmental interactions. The animal health section will focus on identification, classification, and control of diseases and parasites affecting livestock, including the classification, identification, life cycles and the control of ticks. The practical aspect will focus on identification and classification of animal parasites and involving students in the management of parasites and animal diseases.



### **BPAG 3117 Introduction to Animal Feeds and Nutrition**

This course is a brief introduction to feeds, nutrients, general functions of feed nutrients, proximate analysis, digestive tract, nutrient digestion, absorption, transport, apparent digestibility, TDN and energy utilization. Practical work will concentrate on identification and collection of pastures for feed conservation (hay and silage making), practical formulation of feeds for different animal groups, and a field trip to a feed factory such as Ugachick.

### **BPAG 3219 Agricultural Engineering and Mechanization**

This course covers a wide range of tools, machines and equipment used in various branches of agriculture such as horticultural crops, livestock, food and feed handling, storage and processing. Emphasis will be put on structures and functioning of the internal combustion engine. The practical aspect will look at the different parts of internal combustion engine, tractor driving, hitching equipment on tractor, general identification and use of tools, machines and equipment found on the farm. Field trips will be made to garage and mechanized farms.

### **BPAG 3116 Workshop Practice**

This is a practical course in which students will identify workshop tools, maintain them and then use them to produce any equipment used on the farm. Such equipment may include, feed troughs and nesting boxes, but not limited to these.

### **BPAG 3220 Introductory Soil conservation, Irrigation and Drainage**

This course is a brief introduction to conservation agriculture and its benefits compared to conventional farming practices. Topics include agents of soil erosion process, problem and control strategies, irrigation methods, soil-water relationships and general management practices of irrigated agriculture, types of water pumps and their operation and maintenance and advantages and operation of different drainage systems. Students will be involved in soil conservation practices and make field trips to irrigation and drainage sites.

### **BPAG 3118 Introduction to Farm Building and Structures**

This course will introduce students to farm structures such as cattle dips, spray, races crushes, fences, farm building location and constructions, storage structures and building materials such as wood, bricks, blocks, concrete and fencing material. Students will have hands-on practice with different aspects of wood and timber preservation, making bricks and blocks, erecting fences and constructing crushes.

### **BPAG 3221 Principles of Vegetable production**

The course introduces the study of vegetable crops, importance, variety, production systems, integration in home gardens, management principles, vegetable crop management, crop protection, crop improvement, seed production and post-harvest technology and processing of vegetable crops. Students will be involved in making seed beds, nursery beds, potting, transplanting and all the agronomic aspects in vegetable production until harvest, and write technical reports.

### **BPAG 3222 Introduction to Plant Physiologies**

The course gives light treatment to cell biology with some emphasis on cell structure and function. Topics to be covered include: patterns of growth in plants, growth and development in plants, growth hormones and their roles, the role of environmental factors on plant growth, vegetative and reproductive growth phases. Other topics include the yield equation and its components, partitioning and translocation of food assimilates

in plants, photosynthesis and respiration, translocation, plant nutrient uptake, the role of growth hormones, transpiration and response of plants to environmental stress. Photosynthesis and respiration should be given preferential treatment and usually related to crop yield and performance. The practical aspect will focus on cell structure, determining seed germination and viability, measuring the height and leaf at different growth stages, counting the number of tiller in cereals, analyzing plant response to different fertilizers.

### **BPAG 3223 Poultry Production**

This course is designed to introduce students to the history, economic importance, and statistics of poultry (turkey, chick – layers, broilers, locals), principles of poultry biology and their applications to modern poultry production. Topics include anatomy, physiology, reproduction, incubation and embryonic development, breeding and genetics, nutrition and feeding, disease control, housing and environmental control, systems of poultry management, poultry and egg products, and the structure of the poultry industry. Practicals will include: litter management, de-beaking, incubation, brooding, determining egg quality (candling), fumigation, selection and care of hatching eggs, incubator operation, packing of chicks, weight determination, dressing birds, poultry waste management and study trip to Ugachick.

## **MATHEMATICS EDUCATION PRIMARY DEGREE COURSES**

### **BPMA 1101 Basic School Mathematics**

Basic math includes algebra, including arithmetic and geometric progressions, permutations and combinations, binomial theorem, indices and logarithms, graphs and co-ordinates, surds, equations and inequalities, algebraic expression, complex numbers, functions and relations, functions and their graphs, quadratic functions, polynomial functions, rational functions, trigonometric functions, including sine, cosine and tangent, Pythagorean theorem, the sine and cosine rule, double and compound angles. The unit on geometry includes similar triangles and variation also will be covered.

### **BPMA 1202 Elements of Sets and Logic**

The content of this course includes sets and subsets, notation, finite and infinite sets, equality of sets, null sets, subsets, proper subsets, sets of set, universal set, power set, disjoint set, Venn diagrams and axiomatic development of sets, set operations, unions, intersection, difference, and complement. Also included are sets of numbers, such as sets of real numbers, integers, rational numbers, natural number, and irrational numbers. Set functions include: one to one, onto, identify and constant functions and inverse functions. Set relations include reflexive, symmetric and transitive relations, equivalence relations and binary operations. Algebraic statements including simple and compound statements, conjunctions of disjunctions, negation, conditional, bi-conditional, truth tables, loges and contradictions, local equivalence, algebraic propositions will be covered. Logic reasoning, such as logical arguments, arguments using Venn diagrams, arguments and prepositions will be covered.

### **BPMA 2103 Introduction to Number Theory**

This course involves number systems, such as real numbers, complex numbers, rational and irrational numbers, idea of a proof with examples using indication and contradiction, divisibility of integers, prime numbers and their distribution, the theory of congruence, Fermant's theorem and Fermant's last theorem.

### **BPMA 2104 Introduction to Probability and Statistics**

This course discusses outcomes, events and sample space, conditional probability, independent and mutually exclusive events and random variables (discrete and continuous). Also discussed are the distribution function, mean and variance, common distribution, poisson, chi-square, F-distribution, sampling and Randomness, Type I and II errors, level of significance, confidence, sample size and tests of significance for means.

### **BPMA 2205 Introduction to Calculus**

This course gives a foundation to students intending to study Mathematics. It provides the basics including notations and definitions in the calculus course. Topics include coordinates and the straight line, functions, gradient of a curve, velocity and acceleration, maxima and minima, integration, further differentiation, derivatives of trigonometrical functions and the locus.

### **BPMA 2206 Introduction to Differential Calculus**

Topics of this course include types of functions, graphs, slopes of curves, delta method, functions and mapping, limits and centricity of functions. There will be light coverage of formal definition of limits, emphasis on intuitive concept of limit and computation of limits. The unit on derivatives covers the rules of differentiation, chain rule, implicit differentiation, parametric differentiation, application of curve sketching, maxims and minims, rates of change and small changes, derivatives of trigonometric, exponential, logarithmic and hyper boric-functions. The unit on sequences includes the limits partial differentiation sequences and computation of partial derivatives of multivariate functions.

### **BPMA 2207 Descriptive Statistics**

The topics of this course include data collection, data presentation, such as tables, frequency distributions, histograms and bar graphs. Various averages such as arithmetic mean and median will be discussed. Measures of spread such as range, quartile, deciles, percentiles, mean derivation, variance, standard deviation and relative measures of spread will be covered. Index numbers, such as weighted aggregate indices of paashche and laspave are included in this course.

### **BPMA 3108 Introduction to Numerical Methods**

Numerical methods involves rounding and truncation errors, propagation of errors in addition, subtraction, multiplication and division. Also included are solutions to non-linear algebraic equations including, bisection method, Newton Raphson's method, secant method, and Regular false method. Interpolation includes polynomial interpolation only of LaGrange trine, numerical differentiation and integration, numerical differentiation rules arising from Taylor series expansion, only of order thio and Trapezoidal and Simpson's rules for numerical integration.

### **BPMA 3109 Introduction to Linear Algebra**

This course includes geometric vectors, including vector in a plane and space unit coordinated vectors, the dot product and cross product, equations of lines and planes. The unit on matrices includes their applications, multiplication and transposition matrix multiplication, associatively and distributivity, systems of linear equations, solution by row reduction to echelon form, Grassian elimination and Cramer's rile, determinant of square matrices, computation of determinants, matrix rank and its applicative to solution of systems of linear.

### **BPMA 3210 Introduction to Linear Programming**

This course is a study of linear programming problems, including problem formulation, both graphic and algebraic methods of linear programming, the simplex algorithm, the revised simplex method, concepts in economics, such as supply, demand and elasticity, duality, sensitivity analysis, solutions by computers, cautions of linear programming methods, and application of linear programming.

### **BPMA 3211 Introduction to Integral Calculus**

This course includes integration as a reverse process of differentiation, methods of integration by change of variable, partial fractions an parts, definite integral as a limit of approximately sums, applications to areas under curves and volumes of solids of revolutions. The unit on differential equations includes first order linear, separable and exact equations, 2nd order linear ordinary differential equations with constant coefficient.

### **BPMA 3212 Business Mathematics**

This course will explore the everyday application of arithmetic including ratios, proportions, percentages, taxation and insurance, hire purchase, PAYE, VAT business arithmetic, discount, commission and currency exchange. The computation of simple and compound interests is expected.

### **BPMA 3213 Introduction to Vector Calculus**

Vector Calculus involves polar co-ordinates, cylindrical co-ordinates, sketching of curves given in polar co-coordinated, areas enclosed tangents, arch length, vectors in plane and space and unit co-ordinates.

### **BPMA 3214 Seminar in Mathematics**

The students are given the choice to select their own topics in any area of mathematics and each is required to submit a written report and also give an oral report on what they have researched. This should follow given scholarly paper presentation, though in a modified form. Presentation of the paper using power point is expected.

## **BIOLOGICAL SCIENCE EDUCATION PRIMARY DEGREE COURSES**

### **BPBI 1101 Health and Nutrition**

This course emphasizes techniques for teaching children to lead healthy, nutritious lifestyles by using the eight principles of health; proper nutrition, plenty of exercise, drinking adequate water, getting adequate sunshine, being temperate, getting fresh air, getting adequate rest, and trust in a higher power. Extra emphasis is placed on nutrition, including the five basic food groups, balanced diet, and nutrient value and energy value of foods. Other topics include identification of different human diseases and parasites and how to treat them, first aid, water and sanitation, including safe use of toilets and pit latrines at home.

### **BPBI 1102 Cells and Microscopy Practicals**

This practical course introduces students to microscopes and cells. Specific topics include: use and care of microscopes, stains and staining techniques, sectioning techniques, preparation of temporary and permanent slides, and examination of various animal and plant cell structure, tissues, as well as cross sections of plant organs (roots, stems, and leaves).

### **BPBI 1203 Cell and Organismal Organization**

This course is an investigation of the internal functioning of cells, plants and animals. Topics in cell physiology, such as the chemical constituents of life, energy and the cell, enzyme function, glycolysis, the Krebs cycle, synthesis of biological polymers, and membranes and cellular transport will emphasize features that are common among plants, animals, and other forms of life. Topics in organism physiology will contrast the physiological differences between plant and animal cells and tissues. In plants these are transport systems, photosynthesis, plant hormones and selected aspects of stress physiology. In animals these are the physiology of movement, control by nerves and hormones, digestion, circulation and the urinary system.

### **BPBI 2104 Plant Morphology and Physiology**

This course will provide a brief account on morphology and anatomy of selected phyla in plant kingdom. The study of the structure and histology of angiosperm roots, stems, leaves, flowers, fruits and seeds; development from male and female gametophytes, endosperm development, embryogenesis, seed germination and the structure and development of the shoot apex and the hormones involved will be covered. Also the study of primary plant metabolic processes, including the movement of materials in and out of plant cells and within plants, photosynthesis, respiration, mineral nutrition, nitrogen metabolism and growth analysis will be included.

### **BPBI 2206 General Physiology Practical**

This course covers practical work on animal and plant physiology. Specific topics to be covered include: food tests, enzyme activities, osmosis and diffusion, investigation of factors affecting photosynthesis, gaseous exchange, and fermentation.

### **BPBI 2105 Animal Morphology and Physiology**

This course will provide a brief account on morphology and anatomy of selected phyla in animal kingdom. The process of development from fertilization of the egg to organogenesis will be followed in representatives of various phyla in the animal kingdom; the structure and function of the animal body, cells and tissues, as well as the skeletal, muscular, nervous, endocrine, circulatory, digestive and urinary systems; and thermoregulation and adaptations of ectotherms and endotherms are included.

### **BPBI 2207 Ecology and the Human Environment**

This course focuses on the study of ecological principles with humans in relation to the world about them. The theme of humans as the focal point is especially designed to teach ecological principles of primary students because of the understanding that primary students have concerning human requirements. Specific topics include abiotic and biotic factors, habitat, niche, populations, communities, ecosystems and their function, biomes, conservation of biodiversity, and the role of humans as stewards of the earth.

### **BPBI 2208 Genetics and the Origin of Life**

This course surveys two distinct, but linked fields: the sciences of genetics and evolution. Topics from genetics include DNA structure and function, classical Mendelian genetics, mitosis, meiosis, chromosome theory of inheritance, molecular genetics, gene and chromosome mutations, gene function and regulation. Specific topics concerning the origin of life include change in living things, speciation, theories of the origin of life, mechanism of evolution and evidence for intelligent design. This part of the course will focus on the origin of life debate and students will be encouraged to make up their own minds based on evidence.

### **BPBI 2209 Biodiversity**

This course is a survey of the diversity of all forms of life. The survey will include the study of examples in all kingdoms. Within each kingdom the survey will include general characteristics in structure and function, classification, general modes of reproduction, economic importance and diversity of habitats. Students will learn about classification within selected groups by using identification keys.

## **PHYSICAL SCIENCE EDUCATION PRIMARY DEGREE COURSES**

### **BPPS 1101 Mechanics and Properties of Matter**

This course is an introduction to mechanics and the properties of matter, including measurement, instruments, dimension analysis, linear motion and its conservation, Newton's law of motion, work, power and energy, circular motion, hydrostatics, fluid flow, elasticity and surface tension.

### **BPPS 1202 Introduction to Inorganic Chemistry**

This course explores the fundamental properties that govern the way that elements behave. Topics to be covered include structure of atoms, molecules and their symmetry, ions, the Periodic Table, general properties of common elements, chemical bonding and types of molecules.

### **BPPS 2103 Electricity and Magnetism**

This course provides an introduction to electric and magnetic phenomena. Topics include electrostatics and magnetostatics, current, electricity, magnetism, charge distribution, Columbic force, electric intensity, potential and gradient, capacitors, thermoelectricity, magnetic materials and fields, force on conductor, moving charge and its application and electromagnetic induction and its application.

### **BPPS 2206 Introduction to Organic Chemistry**

This course provides an introduction to chemistry of carbon containing compounds, their structure, nomenclature and physical and chemical properties. The preparation of alkenes, alkyl halides, alkenes, and cyclic aliphatic hydrocarbons will be covered. Where appropriate, reactions, mechanisms and the relationships between structure and reactivity will be emphasized.

### **BPPS 2207 Energy, Rate and Equilibrium**

This course is a continuation of inorganic chemistry. Topics include acids and bases, chemistry of metals and non-metals, oxidation and reduction reactions, electrochemistry, liquid-vapor, solid-liquids, liquid-liquid equilibrium, chemical equilibrium and nuclear chemistry, including nuclear decay and stability.

### **BPPS 2105 Science, Technology and Society**

This course examines the impact of science and technology on society and explores the rational for science education, and explores the relationship between technology and society. Specific topics include the scientific method; selected issues in the history and philosophy of science; the role of science and technology in development; the role of the teacher and environment on science; and improving science education in the primary school.

### **BPPS 2212 Waves and Optics**

This course provides an introduction to wave and optical phenomena. Specific topics include harmonic motion, forced oscillations, impedance waves, standing waves,

waves on a string, the Dropper effect, the wave equation and its solutions, properties of waves, wave fronts, the electromagnetic spectrum, light sources, characteristics of light, radiometric and photometric quantities and units.

### **BPPS 3211 Introduction to Thermodynamics**

This course covers the concepts and principles of thermodynamics. Topics include the laws of thermodynamics, heat, work, power, internal energy, enthalpy, heat transfer, statistical thermodynamics and its application. thermometry, specific heat capacity, change of state, kinetic theory of gases, saturated vapors, heat transfer and linear expansion.

### **BPPS 3108 Introduction to Environmental Science**

This course introduces students to the environmental issues from the chemistry point of view. Specific topics include pollution: forms, causes and prevention; aquatic chemistry and water treatment, inorganic and organic pollutants, global warming and causes, waste management, and agreements to protect the environment.

### **BBPS 2208 Chemistry of Benzene and its Derivatives**

This course provides the student with the basic knowledge of benzene and its derivatives. The historical development of benzene, preparation and properties of benzene compounds will be covered. The nucleophilic and electrophilic substitution reactions will be emphasized.

### **BPPS 3109 Introduction to Chemistry Practical I**

This course exposes students to basic ideas of chemical analysis. It will emphasize instrument manipulation skills, volumetric analysis techniques and quantitative analysis. Accurate observation and recording of scientific data will be emphasized. One 2-hours experiment in each the following areas is expected: stoichiometric measurements, neutralization reactions, standardization of acids and bases and a few qualitative analysis experiments such as testing for  $\text{NH}_4^+$ ,  $\text{Cu}^{2+}$ ,  $\text{Cl}^-$ , etc ions in solutions.

### **BPPS 3210 Introduction to Chemistry Practical II**

This course exposes students to more basic ideas of chemical analysis. It will emphasize instrument manipulation skills, volumetric analysis techniques, quantitative analysis and qualitative analysis. Accurate observation and recording of scientific data and deductions will be emphasized. One 2-hour experiment in each of the following areas is expected: standardization of acids and bases, quantitative analysis of impure samples, a few redox reactions, and a few qualitative analysis experiments such as testing for  $\text{Al}^{3+}$ ,  $\text{Zn}^{2+}$ ,  $\text{CO}_3^{2-}$ , etc., ions in solutions.

## **INTEGRATED SCIENCE PRIMARY DEGREE COURSES**

### **BPIS 3212 Laboratory Organization and Management**

In this course students will acquire skills in establishing, organizing, and managing a school science laboratory. Specific topics include responsibilities of the lab technician, pupil behavior in the laboratory, methodology and organization of the laboratory, laboratory safety, improvisation, and preparation and preservation of organic specimens.

### **BPIS 3213 Seminar on Contemporary Science**

This course guides students to independent studies. The student is expected to choose his/her own topic on scientific issues affecting education in the contemporary society. The course will employ library research, interviews, visits to areas of educational interest etc., writing a comprehensive report and present to the class.



### **BPIS 3108 Introduction to Environmental Science**

This course concerns physical, chemical and biological aspects of the environment. Students will be introduced to the environment as our economic and life support system. Specific topics include water resources, soil resources, the atmosphere, population, the urban environment, farming practices and the environment, waste management and energy. Field trips will be taken to examine the surrounding environment.

## **COURSE DESCRIPTION: PHYSICAL EDUCATION AND SPORTS**

### **BPPE 1101 History and Cultural Foundations of Physical Education and Sports**

The course traces the origin of physical education and sports back to the ancient Greeks and its spread into the entire Europe, America and England. The learner is abreast with the milestones and factors surrounding the development and drawbacks of physical education and sports. Comparison is drawn in view of sports development in Uganda. The cultural aspects are as well handled.

### **BPPE 1202 Teaching and Coaching Soccer and Basketball**

This course offers the technical, theoretical and practical recommendations for physical educators on how to effectively teach and coach soccer and basketball to help learners acquire the required basic and proficient skills. This course explores the drills, techniques and methods to be used in the teaching and coaching soccer and basketball in addition to having a critical look into the laws of the game.

### **BPPE 2104 Human Anatomy and Exercise Physiology**

This is a unique course that grounds the learner in the area of body structures, organisation how these structures function and respond to exercise. The learner will get acquainted with body structures and organs that principally affect sports performance in addition to the coordination of physical activities and yield of energy that is required for exercise.

### **BPPE 2105 Social, Political and Economic Influence of Physical Education and Sports In Society**

Social, political and economic influence of physical education and sports in society is such an important course that explores the significant role played by physical education, games and sports in the contemporary world. The benefits emphasised relate to both individual and ones society at large. Key social, political and economic issues pertinent in sports are handled.

### **BPPE 2206 Planning, Management and Organisation of Physical Education and Sports**

The course focuses on the management, administration and organisation of physical education and sports events. Learner will be abreast with arranging for and management of resources, facilities, equipment and event in view of management theories, concepts, skills, roles, and techniques that will enable students to develop and experience leadership, decision making, problem solving required for their professional execution for duties.

### **BPPE 1203 Sports Biomechanics and Sports Training Theories**

The course sports biomechanics and sports training theories explores the body as a united machine in motion and therefore force that come to play in the context of increasing or decreasing its efficiency during performance in physical education and sports. Students are abreast with knowledge and skills regarding body movement, principles of training and their implication in the world of training physical education performance.



### **BPPE 2207 Teaching and Coaching Netball, Volleyball and Handball**

This course offers the technical, theoretical and practical recommendations for physical educators on how to effectively teach and coach netball, volleyball and handball to help learner acquire the required basic and proficient skills. This course explores the drills, techniques and methods to be used in the teaching and coaching netball, volleyball and handball in addition to having a critical look into the laws of the game.

### **BPPE 3108 Safety and Injuries Management in Physical Education and Sports**

This course emanates from the fact that the need for safety and first aid is greater than ever before since the human body is prone to injuries during games and sports. The student will be guided to identify the possible factors surrounding the occurrence of injuries, introduced to the possible injuries and be grounded in basic first aid administration skills and techniques. The effect of injuries is brought the light with an aim to suggestively provide remedy and preventive measures in lieu of minimizing the effect of injuries thereof.

### **BPPE 3109 Human Growth, Development, Motor Learning and Skill Acquisition**

This course is a special one that explores the stages of mental, physical and skill growth and development. The factors that affect these aspects are discussed in detail and so the implications to physical educators and sports practitioners.

### **BPPE 3210 Teaching and Coaching Athletics and Gymnastics**

This course offers the technical, theoretical and practical recommendations for physical educators on how to effectively teach and coach athletics and gymnastics to help learner acquire the required basic and proficient skills. This course explores the drills, techniques and methods to be used in the teaching and coaching athletics and gymnastics in addition to having a critical look into competition rules.

### **BPPE 3211 Media, Technology and Computer Applications in Physical Education and Sports**

This course is uniquely designed to educate students of the technological applications in the world of physical education and sports. The course ventures into the effects of media, technology and computer applications in physical education and sports. The effect of mediated sports is handled as well.

### **BPPE 3212 Sports in the Global Community**

Sports in the global community is a course designed to ground the students in the local and global perspectives of physical education and sports. The course ventures the look into physical education from a micro level to a macro level with sports participation and performance being magnified from individual athlete to what the universe holds in view of sports performance and events. The course unveils the national and international federations and an overview of their operations, leadership and what they basically do.

### **BPPE 3213 Sports Psychology and Sociology**

This course aims to ground students with principles and practical implications within sports psychology. The cardinal objective is to facilitate the understanding and appreciation of psychological factors that influence performance in physical education and sports. The course encompasses vital aspects including motivation, personality, group dynamics, sports violence, arousal, anxiety, stress, confidence and competition in physical education and sports.

### **BPPE 3214 Teaching and Coaching Swimming, Hockey and Badminton**

This course offers the technical, theoretical and practical recommendations for physical educators on how to effectively teach and coach swimming, hockey and badminton to help learner acquire the required basic and proficient skills. This course explores the drills, techniques and methods to be used in the teaching and coaching swimming, hockey and badminton in addition to having a critical look into the laws of the game.

## **COURSE DESCRIPTIONS CERTIFICATE IN EARLY CHILDHOOD EDUCATION**

### **Professional ECD Certificate Courses**

#### **CPTE 1011 Early Childhood Education Methods**

The course explores different methods appropriate for teaching young children, their advantages and disadvantages. It also enables the student to apply the different methods of teaching in the teaching-learning process.

#### **CPTE 1102 Professional Studies I**

This course introduces the student to teaching as a profession and the challenges related to the teaching profession. It enables the student to understand the teachers' ethics and code of conduct. It also focuses on educational psychology, its importance, the concept of learning, different learning styles, factors affecting learning, and motivation.

#### **CPTE 2103 Foundations of Education**

This course is designed to introduce the teachers to the causes of individual differences in behavior and performance of the pupils they are teaching and how they can cater for the different learning needs of the pupils. The students will also be introduced to curriculum development in primary schools and how to pass over appropriate study skills to the pupils.

#### **CPTE 2205 Pre-school Curriculum**

This course deals with the concept of curriculum, with much emphasis on the learning frame-work (3 – 6 years), looking at its importance, overview, developing competences from outcomes, developmental activities, scheming and lesson planning and the daily routine in pre-primary institutions.

#### **CPTE 2104 Professional Studies II**

This course focuses on guidance and counseling with emphasis on the concept, qualities of a good counselor, counseling procedures, roles of a teacher as a counselor, and stress management skills. It also deals with assessment and evaluation of children's learning, the concept of assessment, ways of assessing, assessment tools, designing and writing children's reports, and the teacher's role in children's assessment.

#### **CPTE 2206 Educational Technology and Display in ECD**

The course introduces students to the basic process of effective human communication in relation to the teaching-learning situation; choosing and making relevant teaching-learning materials used in teaching; and the importance of educational technology with emphasis on the use of locally made materials got from the children's immediate environment. It also introduces students to the nECDssary techniques of making, grading and displaying materials suitable for different ECD classes/pupils.

### **CECD 1011 Introduction to Early Childhood Development**

The course introduces the student to the concept of ECD, objectives of ECD, and its benefits to the child, family, community and nation. It also creates awareness of the history of ECD in Uganda, types of ECD programmes, children's rights and responsibilities, the forms of child abuse, child neglect and child labor.

### **CECD 1102 Child Health and Nutrition**

This course focuses on the concept of health and nutrition, the feeding program for children (0 – 6 year), causes, signs, symptoms and management of nutritional deficiency conditions, the roles of the home and school in child nutrition. It also explores the essential elements in Primary Health Care, ways of HIV and AIDS transmission, signs and symptoms of HIV/AIDS, common accidents and their management and the role of the home and school in promoting child health, safety and security.

### **CECD 1204 Cultural Education I**

This course embraces the fields of music and creative work/art and crafts. It covers the concept and importance of music, categories of songs and rhymes for children, musical instruments, suitable movements, different costumes for various music occasions, and conducting music lessons. It also covers the concept and importance of art and crafts/creative work, materials for use in creative activities, techniques of teaching child art, roles of the teacher, and display of various art products.

### **CECD 1103 Home Management and Family Life Education**

This course enables the student to understand the meaning of home management and its components and the importance of home management to children's development. It also deals with domestic violence, focusing on causes, dangers, and safe and secure measures at home.

### **CECD 1205 Child Growth and Development**

This course introduces students to the growth and development patterns children go through which form the basis for teaching; they include: the social, physical, moral, emotional, intellectual development. The course also assists the student teachers to understand the different processes children go through in developing language. This helps them to be able to understand, choose and organize learning experiences in relation to children's growth and development patterns and the immediate environment.

### **CECD 2108 Cultural Education II**

This course covers physical education and religious education (CRE and IRE). Topics covered under PE include: the importance of PE to young children, basic movement skills for children, PE activities, games of low organization, scheming and lesson planning, PE programs, storage and maintenance of PE materials, and safe play environment. Topics to be covered under Religious Education are: Meaning and importance of teaching religious education to young children, appropriate methods of teaching RE, instructional materials, religious values, and the role of the home, teacher and community in inculcating religious values in children.

### **CECD 1207 School Practice Preparation**

This course is intended to help students to prepare themselves before going out for school practice. The students are guided on how to prepare school practice files, and how to make schemes of work, lesson plans and time tables. They are taught how to develop learning activities for the appropriate age levels and finally participate in demonstration lessons before going out for the real school practice.

### **CECD 2109 Mathematics Theory and Practice**

The course introduces the student to the meaning of and importance of teaching Mathematics in ECD, the basic Mathematics concepts and the ways of developing mathematics concepts in children. It also deals with the challenges and solutions of teaching and learning Mathematics.

### **CECD 1206 Community Engagement**

The course introduces the student to the concept of community engagement and community stakeholders with their roles in ECD centers. It also equips the student with skills of working with the community and school community linkages.

### **CECD 2110 Language Development and Teaching**

This course focuses on the concept of language, importance of language to children, milestones of language development (3-6 years), language skills to be developed in children; that is, listening, speaking, non-verbal communication, reading and writing, and the activities for developing language skills. It also enables the student to develop skills in functional literacy, grammar and composition, reading for comprehension, writing reports, letter writing (formal and informal), writing diaries, and filling official forms.

### **CECD 2111 Child Study**

This course introduces students to practical studying of the children they teach. It is designed to equip students with techniques of observing, studying and recording information about pupils; after which, they use this informatics during the teaching-learning process; the course will also acquaint students with enquiry skills nECDssary in finding out the information they need about the client under study.

### **CECD 2212 Special Needs Education**

This course introduces the student to the concept of Special Needs Education and categories of special needs in children. It equips the students with skills of identifying, caring and supporting children with special needs. It also outlines the roles of teachers and other stakeholders in supporting children with special needs.

### **CECD 2214 Development Studies**

This course will cover factors that influence development and those which determine change in the society in relation to ECD; environmental awareness; human relations; conflict and conflict resolution in pre-school institutions; children's rights, child labor, boy/girl child education; and equal opportunities for all.

### **CECD2213 Pre-school Management and Administration**

The course equips the students with the fundamentals of what administration is, its characteristics, needs, and objectives. The course will cover the following topics: the kind of school equipment and its storage; beautification of the campus; the set-up of the library, playground site and sanitation facilities. Qualities of a successful head teacher, professional functions such as maintenance of school records, school budgeting, co-curricular activities, discipline, and rewards will also be examined.

### **CECD 2215 Child Care in Pre-school Institutions**

The course enables the student to explore the concept of child care and traditional and modern child care practices at home and school. It also focuses on the roles of the teacher and other stakeholders in child care.

### **CPSP 1301 School Practice I and CPSP 2302 School Practice II**

School Practice I and II enable students to have real life experience in the classroom and in the school environment. Each session runs for a period of eight weeks.

## **DIPLOMA – PRIMARY COURSE DESCRIPTIONS PROFESSIONAL EDUCATION DIPLOMA COURSES**

### **DPTE 1101 Foundations of Education**

The course covers two aspects: Philosophy of Education and Sociology of Education. In philosophy, students are exposed to philosophical aspects that are relevant to the education profession. It covers the relationship between the various philosophies and their educational outcomes. It mainly handles the Christian perspective of the philosophy of education.

In sociology of education, students are exposed to education as a social institution responsible for the systematic transmission of knowledge, skills, and values within a formally organized structure. It covers the societal stability and social changes; it also acknowledges education as a powerful and influential force in a contemporary society.

### **DPTE 1102 Psychology and Special Needs Education**

This course is designed to help the student acquire more knowledge about growth and development of children and assist them to understand the nature of learning, the theories of learning and the characteristics of learners. This course also introduces students to the concept of special needs education and explains the categories of special needs with their characteristics and management. It also explains working with children with special needs and providing an inclusive environment to support children with special educational needs as well as the role of other stakeholders in supporting children with special educational needs. The course will also deal with the area of guidance and counseling and how to guide and counsel children in primary schools.

### **DPTE 2105 Curriculum, Supervision and Evaluation**

This course is intended to equip learners with curriculum studies and cooperative learning approaches which are essential in the development of the teaching-learning process in primary schools. It is also intended to give learners knowledge of identifying appropriate methods of evaluating and supervising the teaching and learning activities in the schools and the classroom in particular, and using the results to improve their teaching and the performance of learners.

### **DPTE 2106 Communication Skills and Seminar Paper Presentation**

In this course, special attention is given to communication skills and communication barriers, and how to overcome those barriers. Students are given various topics in groups to discuss, write a paper and present it at a given appropriate time.

### **DPTE 082 Education Technology and Display**

This course is intended to present simple approach teaching procedures for classroom instruction. It offers practical principles on areas like realia preparation and use of audio-visual materials, correct demonstration processes, developing and practicing on the job teaching programs. It also gives valuable tips on how to be an efficient teacher, effective motivation techniques and how to develop relevant teaching objectives. The emphasis is on students making practical use of local materials to develop cheap but useful teaching aids.

### **DPTM 1103 General Primary Teaching Methods I**

This course involves defining a teaching method and a teaching technique. It deals with the various methods and approaches of teaching in primary schools and discusses the advantages and disadvantages of the various methods identified. The course emphasizes child centered approach as one of the best strategies to be used in teaching in primary schools. It looks at the major aspects which a teacher must have while planning to teach such as the curriculum, the syllabus, schemes of work, and lesson plans.

### **DPTM 1104 General Primary Teaching Methods II**

This course is intended to guide students in the interpretation and use of a syllabus to prepare good schemes of work and lesson plans. It helps the learner to come up with good and appropriate language and subject competences for the various subjects taught in primary school and guides him/her in identifying appropriate methods and instructional materials for any given subject at the given level. It further gives students an opportunity to prepare and deliver a lesson practically, emphasizing child centered approach, classroom management, teacher/pupil rapport, and pupil/pupil relationship in the real classroom situation.

### **DPRM 2101 Research Methods and Report Writing**

The course defines research, its functions, importance and need in education. It introduces students to the basic research methods, techniques and design. Students are taught how to formulate a researchable problem and how to collect and analyze data. Students are also guided on how to write a research report. The students are required to use the given guidelines to carry out a practical research in education.

### **DPSP 1301 School Practice I and DPSP 2302 School Practice II**

These are two sessions each of eight weeks duration. The students are given real life experience of putting in practice what they learnt theoretically. Students are expected to participate fully in all the activities going on in the schools.

## **ENGLISH DIPLOMA PRIMARY COURSES**

### **DPLE 1101 Language Study I**

This course will cover the following topics: definition of language, reasons for studying a language, the nature of language, the importance of language in society, L1 acquisition, L2 learning/acquisition, L1 in language development, and transference factors responsible for effective acquisition of L2 in growing children.

### **DPLE 1102 Listening and Speaking Skills**

The course intends to sharpen the students' skills in listening and speaking through varied oral exercises. Special attention will be given to pronunciation and intonation as well as acquisition of communicative competence in the English language. The course will also equip the students with various methods and techniques of helping their learners improve their listening and speaking skills.

### **DPLE 1203 Reading and Writing Skills**

This course will take the students through the skills required for different types of reading and writing and will give students hands-on experience in the two skills to enhance their reading and writing skills

### **DPLE 2104 Literature and Drama I**

This course covers the definitions of common terminologies used in literature and aims to equip the students with the aspects of literature and how to teach language skills using literary texts. It will also equip the students with techniques of teaching and adjudicating drama in the primary schools. Students will have an in-depth study of selected texts.

### **DPLE 2206 Language Study II**

This course introduces students to the distinctions between L1 and L2 in relation to classroom application. Students are made to explore theories and stages in L1 and L2 acquisition; phonological, syntactical and semantic issues in the learner's acquisition of language and language learning will also be examined.

### **DPLE 2105 English Grammar**

The course intends to ground the student teachers in the knowledge and rules of English grammar to enable them confidently teach English language at all levels of the primary school. Topics to be covered include: parts of speech, tenses, subject-verb agreement, common English usage errors, using capitals, commas, apostrophe and quotation marks, and spelling rules.

### **DPLE 2207 Oral Literature and Poetry**

This course deals with the definitions of oral literature, folklore, and oral tradition; the difference between oral and written literature; and characteristics of oral literature. It will also examine the following sub-topics: oral literature and social-political development; the relevance of oral literature to education institutions and to language teaching; forms of poetry; poetic devices; tone quality in poetry; rhyme in poetry; and the value and use of poetry in language teaching.

### **DPLE 2208 Literature and Drama II**

In this course, students are exposed to the basic elements of drama and terms used in drama. A selected work from African, American or English playwrights will be studied and the staging of a play will be organized by students.

Social Studies Diploma Primary Courses

### **DSST 1101 Local Environment and SST Methods**

The course is intended to foster interest in the students about the local environment and help them acquire advanced skills and techniques of carrying out a systematic observation as they study a small area. It further discusses the major components of the environment like abiotic, biotic and socio-cultural environments and the interrelatedness between humans and the environment, specific environmental problems and the underlying causes and solutions. The course also identifies and discusses the methodology of teaching SST with emphasis on the following: environmental oriented approach, problem solving, multimedia presentation, and inquiry and integrated approach.

### **DSST 1102 Economic Development Schemes in Africa**

This course is intended to equip learners with knowledge about the large-scale irrigation and Multi-Purpose River projects/schemes in Africa, their background information, development process, achievements and future prospects. It provides case studies like: Lilongwe Land Development Scheme, Gezira Irrigation Scheme, and the Volta River Project. The students are guided to discuss the case studies given in relation to the experiences within their own geographical areas.

### **DSST 1203 World Environment and Political Issues**

This course covers man and environment and how this influences politics. The topics include: natural environment, environment as a resource, man's interactions with the environment, and effects of man's activities on the environment. Political issues such as causes of conflicts, international organizations, and international trade will also be covered.



### **DSST 2104 The Search for Ideological Identity in Uganda**

This course is intended to introduce students to world major ideologies and national philosophies. Emphasis will be on ideologies in the East African region.

### **DSST 2105 Political and Economic Development of Uganda**

This course aims to equip students with background knowledge about foreign intrusion and influence in Uganda. The following topics will be extensively covered: The scramble and partition of Uganda; colonization of Uganda; economic, social and political transformation of colonial Uganda. The course further deals with issues in the political development of Uganda since independence, salient features of development, and the current trend of political and economic development.

### **DSST 2106 East African Political Evolution**

This course helps students to comprehend the early history of East Africa up to the present. It covers the colonial settings in East Africa and the reasons behind the rise of nationalism in the region. It also looks at the evolution of the boundaries of East Africa and finally the development of the East African Community.

### **DSST 2207 East African Nationalism**

This course is intended to enhance students' understanding of colonial rule in East Africa, the rise of nationalism in East Africa, liberation movements, prominent African nationalists and how African people responded to the challenges of colonial conquest, colonial rule and the task of national building. It also covers the growth of nationalism and political parties in East Africa.

### **DSST 2208 Post Independence East African Countries**

The course introduces learners to the national and state building of the East African countries, the formation of each state in East Africa, the characteristics of a state, constitutional arrangements, independence and political development of the East African states up to the present.

## **RELIGIOUS EDUCATION DIPLOMA PRIMARY COURSES**

### **DCRE 1101 Origin of the Bible**

This course traces the history of the Bible and includes discussions of origins (oral traditions, art of writing and transmission), inspiration, major manuscripts, the biblical canon (Old and New Testaments), early translations, and modern versions. It also provides a quick reference to the people, places, events, and content/themes of the books of the Bible.

### **DCRE 1102 Introduction to the Old Testament**

This course will offer students an in-depth knowledge of the Old Testament, equipping them with methods and skills in the teaching of Old Testament themes. It will also help them in developing insights into Old Testament values and relating them to life today.

### **DCRE 1203 Introduction to the New Testament**

This course will help students to acquire a deeper knowledge and insight into the life and teachings of Jesus Christ. Students will examine the role of the apostles in establishing the church. The course will also introduce the student to modern methods of teaching the New Testament.



### **DCRE 2104 World Religions**

This course will provide basic comparative knowledge in religions, practices and values with the aim of helping students to develop respect for other religions and grow in maturity in all areas of human life.

### **DCRE 2206 Society and Religion**

This course reviews introductory definitions and issues of religion within society. The course will help students develop an understanding of the place of religion in the modern world. It will examine, in a general manner, the interrelationships among societal, cultural, religious, and belief systems. Topics include the role of religion and belief in the theory and practice of governance; secularization debates; agents of religious and socio-cultural change; and religious sentiments in contemporary society and their roles in the making of modern civil society. The course will also examine the contradictions evident in the phenomenon of religious resurgence versus the absence of religious values.

### **DCRE 2105 Systematic Theology**

This course will assist students to know and be able to explain the Christian faith. The course aims to deepen the students' moral and spiritual life.

### **DCRE 2207 Religious Ethics**

This course will help the students to develop insights into social and religious values and to relate them to life as a basis for judgment and choice. As they read and study, students will be guided to attain knowledge to counsel pupils in regard to ethical issues

### **DCRE 2208 Church History**

The course intends to enable students know the origin and growth of the church from the earliest period to the present day, appreciate the contributions of the church to the development of human society, and inculcate in the students the ecumenical spirit for effective handling of CRE and Religious Education in schools.

## **EARLY CHILDHOOD EDUCATION DIPLOMA PRIMARY COURSES**

### **DECD 1101 Theory of Childhood Education**

This course will enhance the students' knowledge of the importance of childhood education and the contributions of thinkers such as Pestalozzi, Froebel, Piaget, Isaac, Montessori, and Locke to the information on childhood development.

### **DECD 1103 Anatomy and Physiology of a Child**

The course will cover the following topics: Definition of terms such as anatomy and physiology, normal growth, etc.; different body parts of children between 0 - 8 years of age; children retarded in walking, crawling, and sitting unsupported; left-handedness; toileting; bedwetting; child diseases and their management; sickle cells; and delayed hospital treatment of sick children and its effect on children.

### **DECD 1205 Individual Learning Needs and Child Care**

This course covers the development stages of young children, their developmental needs, individual differences, and the different ways in which children learn. It also looks at the activities that can stimulate children to learn. The course also covers the child care practices at home and school, the role of the teacher and other stakeholders in promoting child rearing, the meaning of child care practices and the role of the teacher and other stakeholders in child care.

### **DECD 2107 Pre-Primary Curriculum**

This course introduces students to the concept of curriculum, the importance of the curriculum learning framework, development activities and developing competences from the outcomes. The course also looks at the importance of schemes of work and lesson planning for the daily routine and time tables in pre-primary institutions.

### **DECD 2211 Fieldwork and Child Study**

This course covers the importance of child study, factors to consider when identifying children for study, procedures, methods of data collection, recording, and writing the child study report. It also includes visits to Early Childhood Development centers and children's wards.

### **DECD 2109 Child Health and Nutrition**

The course will cover the following topics: Definition of nutrition; child nutritional needs at various stages of development; effects of malnutrition on the mother and child; importance of health in child development; common illnesses before and during childhood and their prevention; care and safety in the home; prevention of common accidents; first aid; and the role of the pre-school teacher in a child's health.

### **DECD 2212 Civic Education and Community Involvement**

This course combines civic education and community involvement. It is intended to help students to become familiar with issues connected with children's rights and proper upbringing as well as involving parents in school/education issues as a way of facilitating children's proper growth and learning.

### **DECD 1102 Play as an Avenue of Learning**

This course covers the concept of play, types of play, developmental stages of play, provision of play facilities for different age groups and organizing free activity lessons. It also looks at the challenges of organizing play for the children.

### **DECD 2215 Business Skills**

This course deals with planning and managing small scale projects, project identification, types of projects, budgeting and accounting, marketing, and project proposal writing.

### **DECD 1104 Language Development and Teaching in ECD**

The course focuses on the concepts, stages, and factors that influence language development. It aims to enable the prospective teacher develop necessary skills in monitoring children's language development. The course will also include: the Uganda Education Policy on language, development of language skills in children, pre-reading, reading readiness, pre-writing, writing readiness, creative writing, and designing instructional materials for language development in children.

### **DECD 1206 Mathematics Education in ECD**

The course covers objectives of teaching Mathematics to young children, basic Mathematics concepts, pre-Mathematics experiences for young children, development of Mathematics concepts and activities, the techniques of teaching Mathematics to young children, and the importance of manipulative skills in teaching Mathematics to young children.

### **DECD 2108 Cultural Education**

The course enables the student to acquire knowledge and skills to be able to instill cultural and religious values in young children. The course embraces various competences in music, physical education, religious education, and art and crafts for young children.

### **DECD 2213 Administration and Management of Pre-Primary Education**

The course introduces the student to the pre-primary institution as an organization, the concept of administration and management, the administrative and management structures, establishment, licensing and registration of ECD centers. It also looks at the roles of different managers and administrators, resource management, statutory instruments as well as formulation of rules and regulations, school mission and objectives. Additional topics will include organization of different school events and functions, and strategies of classroom management and organization.

### **DECD 2110 Assessment in ECD**

This course introduces learners to the concepts of assessment, types of assessment, ways of assessing children's growth and development, tools of assessment and how to make the assessment reports.

### **DECD 2214 Children's Rights and Responsibilities**

This course deals with the concept of children's rights, the Uganda Children's Act 2000, inculcating rights and responsibilities in children, and sensitizing the community on children's rights and responsibilities. It also covers the attitude of parents and community towards children, child abuse and neglect, child labor, and child work.

### **DECD 2216 Environmental Education**

The course introduces the student to the concept of environment, types of environment, and skills to be developed in children to enable them interact with their environment. It also embraces environment conservation and use and the influence of environment on children's development and learning.

## **AGRICULTURE DIPLOMA PRIMARY COURSES**

### **DPAG 1101 Introduction to Agricultural Education and Extension**

The course introduces the student to agricultural education in the tropics with emphasis on Uganda. The following topics will be covered: the objectives and history of agricultural education in Uganda; the relationship between agricultural science and other natural sciences; career opportunities in the field of agriculture; problems of teaching agriculture in Uganda; the role of agriculture in shaping community and students' beliefs about agriculture; social factors affecting the teaching of agriculture; and the role of the school farm in teaching agriculture.

### **DPAG 1103 Introduction to Soil Science**

This course offers an overview to the concepts of soil, soil composition consistency and bulk density and their importance in crop production. The course will also introduce students to soil chemistry – colloids, clay, types and their characteristics, cation exchange, soil Ph and liming and soil organic matter and soil micro-organisms.

### **DPAG 1203 Principles of Crop Production**

This course intends to cover the following topics: a historical perspective of crop agriculture; classification of crops; characteristics of tropical cropping systems; systems of crop production; cultural practices in crop production; the role of environmental factors in crop production. It will also cover agronomy of selected annual and perennial crops and vegetables.

### **DPAG 2107 Introduction to Agricultural Economics**

This course is an introduction to the social science of economics and aims to answer the question of why economics in agricultural science. Areas that will be covered include the

principles of scarcity, opportunity cost, and choice in economics; introduction to price theory, demand and supply, and elasticity of demand and supply; economic questions such as why agricultural prices fluctuate; risks and uncertainties; and agricultural marketing boards and co-operatives. It will also provide an overview to farm management and accounts – balance sheet, farm records, and profit and loss accounts.

#### **DPAG 2204 Crop Protection**

This course intends to help the student understand the concept of crop protection, its place in crop production, and its importance. Topics to be covered include crop pests, their classification and identification; control methods of crop pests; introduction to crop diseases and their causes and control; crop weeds, their identification, classification, and control.

#### **DPAG 2109 Animal Production and Management**

This course covers the basic principles of dairy, poultry and piggery production, including breeds, systems of keeping, feeding, breeding, milking, record keeping and other basic management practices. Calf, chick and piglet rearing and management practices should be emphasized.

#### **DPAG 2201 Introduction to Animal Nutrition and Feeding**

The course will cover nutritional requirements of different animal classes; digestive physiology of ruminants, birds, and non-ruminants; feed digestibility and its determination; feed formulation for different classes of animals.

#### **DPAG 1202 Introduction to Animal Breeding and Reproduction**

This course introduces students to principles of reproduction, reproductive anatomy of different classes of animals, endocrinology, gamete production, fertilization, pregnancy, heat detection in animals, artificial insemination, semen collection, processing and storage, and animal breeding methods and their limitations.

#### **DPAG 2215 Agricultural Engineering and Mechanization**

The course discusses the history of agricultural mechanization in Uganda, tractorisation and its advantages, levels of mechanization, tractor engines and other sources of power on the farm, engine systems, farm implements with emphasis on secondary and primary, crop and animal protection tools. The course has a practical component.

#### **DPAG 1107 Introduction to Animal Diseases**

The course will introduce the student to the concept of animal diseases and its importance in farm management; causes and classification of animal diseases; signs and detection of ill health in farm animals; characteristics and symptoms of particular diseases in poultry, cattle and piggery and their management.

#### **DPAG 1108 Soil and Water Conservation**

The course covers the theory and practice of soil and water conservation and management for humid, semi- arid and arid regions. It will also cover conservation methods, types of soil erosion and wind erosion and their management.

#### **DPAG 2108 Introduction to Farm Structures and Buildings**

The course provides an introduction to fences, cattle dip, spray race, crush and other structures on the farm with emphasis on animal and crop structures. Other vital areas to be covered include farm buildings, building materials, their treatment and properties, farm foundations and types.

### **DPAG 2213 Introductory Genetics**

This course is an introduction to the structure of cells, cell division, both meiosis and mitosis, the structure of gene and chromosomes; it also introduces students to Mendelian genetics, Mendelian laws of inheritance, mutation and its causes, and the relevance of genetics in animal and crop improvement.

### **DPAG 2110 Forage and Pasture Management**

This course covers pasture agronomic practices including identification, classification, processing, and conservation. It also covers identification of pastures and legume pastures in East Africa.

### **DPAG 2214 Non-Ruminant Production**

This course introduces the agriculture student to the management practices of non-ruminant animals with special emphasis on poultry and piggery. Under poultry, the course will cover poultry industry in Uganda; origin and classes of poultry; types and breeds; systems of poultry rearing; feeding of poultry; housing facilities; disease and pest management. Under piggery, the course will focus on importance of pigs; breeds; management of pregnant sows and piglets; disease and parasite control.

### **DPAG 2216 Introduction to Soil Fertility and Plant Nutrients**

Topics to be covered in this course include growth and factors affecting growth; factors affecting soil fertility; elements required in plant nutrition, their importance and deficiency symptoms; nitrogen and phosphorus cycles; artificial and organic fertilizers; hunger signs in plants and diagnosis of hunger signs in plants; management of soil fertility in different cropping systems.

## **MATHEMATICS DIPLOMA PRIMARY COURSES**

### **DPMA 1101 Number Concepts**

This course is intended for diploma students training to teach mathematics and science at primary school level. The course discusses the number systems, types of numbers, properties of numbers, symbolism in mathematics, series, fractions, different bases of numbers, the use of calculators and mathematical tables, measurements, ratio and proportion, and puzzle formulation.

### **DPMA 1102 Algebraic Structures**

The course handles methods of expansion, factorization and simplification of polynomial functions, remainder theorem, roots of quadratic functions, mapping and functions and introduction to calculus analysis.

### **DPMA 1203 Introduction to Calculus**

The course unit discusses basic and advanced concepts of operations of indices, surds, logarithms of numbers, set notations and operations, matrix notations and operations and their applications.

### **DPMA 2104 College Algebra**

The course deals with the different types of angles, trigonometric ratios, trigonometric equations, sine rule, cosine rule and their applications in problem solving in mathematics and related fields.

### **DPMA 2206 Applied Calculus**

The course introduces the circle, angle and tangent properties, construction of circumscribed circle, inscribed circle, intersecting circles, orthogonal circles, coaxial circles, and equations of circles from the locus, complex numbers and the circles, parametric equations for circles.

### **DPMA 2105 Probability**

This course is intended to acquaint the learners with the relevant methods used in the collection, presentation and interpretation of data.

### **DPMA 2207 Matrices**

The course exposes the students to basic matrix algebra, decomposition, types, determinants, inverses, transposes, eigen vectors, solutions to linear equations by matrix methods including row reduction to Achelon form, Gaussian elimination, Gauss-Jordan elimination, Cramer's method and the application of matrices problem solving in fields of business, industry, traffic flow and street net-works.

### **DPMA 2208 Vectors in 2-D/3-D**

The course discusses vectors quantities in 2 and 3 dimensions in relation to the vector notations, unit vectors, position vectors, vector operations, vector algebra, dot and cross product, the vector equation of the line and plane, vector calculus, and applications of vectors in problem solving in mathematics, physics and mechanics.

## **BIOLOGICAL SCIENCES DIPLOMA PRIMARY COURSES**

### **DPBI 1101 Animal Physiology and Coordination**

The course will cover a brief account on human physiology and coordination including a description of components of human body systems; digestive system, respiratory system, nervous system, circulatory system, muscular system, hormonal system, urinary system, and reproductive system will be dealt with. In addition, locomotion and movement, endoskeleton, advantages of endoskeleton, types of vertebrae, human skeleton and joints, locomotion in other organisms: insects and exoskeleton, and adaptations will be studied.

### **DPBI 1102 Plant Physiology and Morphology**

This course provides basic understanding of major physiological processes in plants, their components, and role in making plants adaptable to their environment. Topics to be covered are: Green plants as primary produces, photosynthesis process in green plants (including the structure of a leaf, adaptations of a leaf for photosynthesis, the factors that influence photosynthesis), transpiration and respiration in plants. Support in woody and non-woody plants, support in plant tissues, climbing plants, twining plants, and their adaptation features for support will also be studied.

### **DPBI 1203 Genetics and Variation**

This course includes two parts: Genetics and Evolution. The genetics component will cover: the basic terms used in genetics, simple Mendelian laws of inheritance, monohybrid and dihybrid inheritance, variation in organisms (continuous and discontinuous), sex linked genes, sex limited genes, genetic crossings, mutation, and genetic diseases. Evolution will cover: the meaning of evolution, theories on origin of life, evolution theories with emphasis on creationism, natural selection, factors for natural selection, and speciation.

### **DPBI 2104 Food and Nutrition**

This course will cover definitions of basic terms used in nutrition, the rationale/role of nutrition to organisms, importance of various food nutrients to the human body, major sources of food nutrients like water, roughages, minerals, vitamins (A,D, K, E and B), proteins, fats and lipid, carbohydrates, and the deficiency symptoms and diseases arising from lack of body nutrients.

### **DPBI 2206 Primary Health Care (PHC)**

This course provides an overview of vital actions required to mitigate negative health impacts. The role and rationale of primary health care, basic terms used in PHC, principles used in First Aid and aid given for cuts, wounds, burns, poisoning, fractures, fainting, shock, strokes, fits, convulsions/seizures, and bites. In addition, the course will cover artificial respiration techniques, diseases, bacterial and fungal infections, protozoa, platy helminthes and nematodes diseases that affect humans. The roles of PHC providers such as community psychiatric nurses, dentists, nurses, midwives, health visitors, physiotherapists, chiropodists, and paramedics will be covered.

### **DPBI 2105 Classification of Organisms**

In this course, students will survey the living organisms in their natural environment and carry out practical observations and classification. They will group organisms in different taxa according to different kingdom systems. Common embryonic structural features will be emphasized. They will construct identification keys and consider a Darwinian view of life during evolution of species.

### **DPBI 2207 Basic Ecology**

This course will include the definition and role of ecology, basic terms used in ecology, associations of living organisms, the concept of ecosystem, components of ecosystem and their roles, food chain, food web, ecological pyramids, populations, population growth, methods of estimating population of organisms, introduction to community, and definition of species as components of ecosystems.

## **PHYSICAL SCIENCES DIPLOMA PRIMARY COURSES**

### **DPPH 1101 Mechanics and Properties of Matter**

This course is designed and designated to examine and discuss the basic aspects of mechanics and kinematics. Specific topics include: Defining and graphing of motion, measurement/dimension analysis, kinematics equations (Newton's laws), free fall and projectile motion, relative velocity, friction, impulse and momentum, conservation laws, types of collisions, center of mass, rotational motion (torque and angular momentum), elements of work, power, energy, fluid flow and surface tension and how all these concepts relate to matter.

### **DPPH 1102 Sound and Optics**

This course is composed of two subjects; namely, sound and optics. Topics to be covered under sound are production and applications: sound wave production, types of oscillations and resonance, properties, pitch, loudness, quality, intensity beats and applications, Doppler Effect and principle of sound, vibrating strings, waves in pipes, determination of the velocity of sound in air and in a tube, and determination of the frequency of sound waves. Topics to include under optics: propagation and transmission of light; the reflection of light on plane mirrors, curved mirrors, refraction of light on plane transparent medium, triangular prisms, lenses, blocks; dispersion and deviation of light; and optical instruments. The wave nature of light, properties and applications, including the wave theory of light (Huygen's principle, refraction, reflection, refractive index, speed, critical angle), Interference of light waves (superposition principle, coherent sources, Young's double slit fringes), Diffraction of light waves (single slit, multiple slits, diffraction grating and orders, wave length), Polarisation of light waves (transverse waves, plane, reflection, double refraction, electric vectors and applications) will be covered.



**DPPH 1203 Electricity and Magnetism**

The course discusses principles in electrostatics, current electricity and magnetism. The topics include the following; charge distribution, Coulombic force, Electric intensity, potential and gradient, capacitors (charging, discharging, connection, application), Ohm's and Kirchhoff's laws, Ohmic and non-ohmic conductors, potentiometers and bridges, thermoelectricity, electrical installations, alternating circuits, magnetic materials and fields, force on conductor, moving charge and applications, and electromagnetic induction and its applications.

**DPPH 2104 Chemical Kinetics and Equilibria**

This course introduces the student to the kinetic theories that govern chemical reactions. The law of mass action, activation energy, the collision theory; the conditions affecting chemical change, the concentration- time curves and predictions of the state and products of a given reaction in regard to reactants and products; Endothermic reactions will be studied. Under Chemical Equilibria, the closed and open chemical systems; reversibility of chemical reactions, the dynamism of reaction and the importance of dynamic equilibria; equilibrium constants (pressure constant (K<sub>p</sub>) and the concentration constant (K<sub>c</sub>)); Le Chatelier's principle and its application to the industrial chemical equilibria will be discussed. Special attention will be given to the industrial manufacture of Ammonia (Harber process), manufacture of sulphuric acid (Contact Process) and the manufacture of ethanol.

**DIPE 1203 Teaching and Coaching Basket, Volley, Soccer, First Aid**

This course equips the students with the practical techniques necessary for handling basket, volley and soccer games. The basic skills for each of the games are dealt with. The teaching progression, teaching points, the common mistakes and their corrections are practically observed. The safety measures and the equipment are put into consideration as well as the aspects of injuries and First Aid where the types of injury, prevention of injury, stages of injury care and the treatment of soft tissue injuries are covered.

**DIPE 2104 Teaching and Coaching Athletics, Gymnastics, Handball and Netball**

This course introduces the students to the practical ways of handling the track and field events (athletics), a group of running, hurdling, jumping and throwing events held between individuals or teams; it also looks at gymnastics through themes such as rolling, balances, vault and jumps, movement with apparatus, partner and group work, and space awareness and movement as well as handball and netball and their basic skills. The teaching progression, the teaching points, the common mistakes and their corrections are practically observed and due consideration is given to the safety measures, and to the facilities/equipment.

**DIPE 2206 Anatomy and Physiology, Application of PE**

This course introduces the learner to the world of the structure and organization of the body and how the body functions and responds to the demands of training and competition. Students will get acquainted with the human organism. This knowledge will enable them to attain an understanding of the factors that contribute to performance especially in physical activities. The cells, skeletal system, muscular system, nervous system, the motor unit, circulatory system, respiratory system, the energy system and homeostasis are some of the areas that will be covered in this course.

**DIPE 2105 System, Organization and Management of PE and Sports**

This course focuses on the practical ways of handling, arranging for, and managing PE and sports in educational settings. The course offers the foundations of management



concepts, skills, and techniques that enable students to develop and test the leadership, decision making, and problem solving skills required for their role in the profession of Physical Education and sports. The need for goals and objectives in lessons, the various teaching methods and teaching styles, the characteristics of a quality PE program, the history and growth of sports management, the rationale for proliferation of sports management, the controversies and problems facing sports management, the scope of sports management, the career and employment opportunities, and the future of sports management are covered in this course.

### **DIPE 2207 Curriculum Planning and Evaluation in PE**

This course will guide the physical educators, step by step, through the process of translating the curriculum theory into functional practice. The following areas will be covered: understanding curriculum development, planning the PE curriculum, implementing the PE curriculum, and evaluating and communication the PE curriculum.

### **DIPE 2208 Introduction to Sports Psychology and Sports Sociology**

This course introduces students to utilizing a variety of sports psychological skills that can enhance performance, improve consistency in training and competition, and minimize or eliminate undesirable mental states such as anger, frustration, and burnout. Basic tools which may help students feel better in their training and give them that extra edge in racing are explored. Skills useful to regulate arousal (up or down) are also covered. The course also examines the relationship between sports and society and seeks answers to many issues and questions regarding sports and culture.

## **DEGREE – PRIMARY**

### **Professional Education Degree Primary Courses**

#### **BPTE 1203 Principles and Methods of Primary Teaching**

The course introduces students to the teaching profession. It discusses the personal and professional qualities of a teacher, responsibilities of a teacher in the school, the basic knowledge about teaching, and the nature of the learner and learning in general. It also surveys different methods and techniques of teaching, making schemes of work, lesson planning, and classroom management.

#### **BPTE 1204 Primary Instructional Technology**

The course examines the importance and use of various educational technologies in the teaching and learning process; instructional aids like chalkboard, charts, diagrams, graphics, maps, printed materials, overhead projectors, video tapes and computer will be discussed. It involves the making of appropriate instructional materials according to the level of pupils plus making use of available devices such as computers, chalkboard and such others.

#### **BPTM 2105 General Primary Teaching Methods I**

The student will be introduced to definitions of terminologies such as ‘method’, ‘techniques’, and other related terms. Categories of teaching methods such as child or learner centered methods, teacher centered methods and subject centered methods will be discussed. Students will also examine the importance of using various teaching methods in the teaching and learning process and the advantages and disadvantages of the various methods and approaches.

### **BPTM 2106 General Primary Teaching Methods II**

This course deals with the general primary teaching methods. Students will look at the traditional – time tested methods and the newer approaches to teaching. Other relevant areas include: improving specific teaching techniques and skills; planning for teaching; lesson delivery; classroom management; lesson evaluation and self-evaluation.

## **EARLY CHILDHOOD EDUCATION PRIMARY DEGREE COURSES**

### **BECD 1101 Child Growth, Development and Rearing Practices**

The course surveys stages of growth, factors affecting growth and potential in children, different aspects of growth and the role played by different social institutions in the child's growth and development. This course also deals with child rearing practices, their aims and influence on the development of a child. The role of the different social institutions in child rearing will be studied.

### **BECD 1203 Health and Nutrition in Early Childhood Education**

The course surveys child health and nutrition with special emphasis on child basic nutrition, different levels of development, the role of culture and the home in a child's diet, and the relationship between nutrition health and education of the child.

### **BECD 1102 Establishing a Functional Child Care Centre and the Stakeholders Forum**

This course introduces the student to the legal procedure of establishing a child care centre. It looks at the basic minimum standards required and the roles played by different stakeholders.

### **BECD1204 Parenting and Mentoring Skills Development**

This course introduces students to the importance of working with children's primary careers (parents) to equip them with mentoring skills. It looks at the importance of parents and other primary care givers, parenting styles, different family structures and understanding the role of the teacher when working with parents.

### **BECD 2105 Child Impairments and their Management**

This course is a survey of the disabilities in children with emphasis on the different types of disabilities, causes, theories of disability, counseling programs for children and parents, and training skills for children with disabilities.

### **BECD 2106 Character and Personality Development**

The course describes how children learn about appropriate behavior and identifies factors that may result in children having difficulty in showing desirable behavior. It also looks at the effects of loss and grief on behavior and strategies to help children express their strong emotions.

### **BECD 2107 Music in Early Childhood Education**

The course surveys the need for music in ECD, rhythms, listening skills in music, music of other countries and appreciating music of different cultures.

### **BECD 2209 Language Development in Early Childhood Education**

This course is an exploration of the teaching of reading and language for beginners in multilingual societies. Language development theories, language disorders, approaches to language teaching, the concept of reading/reading readiness and making use of language/reading materials will also be covered.

### **BECD 2108 Intelligence and Learning Theories**

This course introduces students to the various learning and intelligence theories and how they help in the growth and development of children. It looks at how learning takes place and covers the various activities and equipment to support learning.

### **BECD 2211 Social Studies in Early Childhood Education**

This course deals with the following: aims and objectives of socialization in Early Childhood Education; Social Studies curriculum in Early Childhood Education; approaches and methods used in teaching Social Studies; making and using instructional materials in the teaching and learning of Social Studies; integrating Social Studies with other learning areas; Evaluating the Social Studies program.

### **BECD 2212 Cultural Values and Practices in Early Childhood Education**

The course deals with the teaching of art and crafts, handwriting and creative writing, Physical Education and Religious Education in Early childhood Education. Making and using instructional materials in the teaching and learning will also be covered.

### **BECD 2210 Thematic Based Reading and Writing**

This course introduces the students to the thematic approach of teaching reading and writing. It aims at raising literacy standards in schools. It also sets out teaching objectives from age 6 to year 9 when children should be fully literate.

### **BECD 2213 Education for Sustainable Development**

This course introduces the student to the concept and background of education for sustainable development. It explores the Millennium Development Goals (MDG), national aims, goals and objectives of education with emphasis on the objectives of pre-primary education and the socio-economic, political, globalization, and environment context. It also deals with traditional value systems, cultural diversity and utilization of local structures and health in relation to sustainable development. Other topics to be explored include gender equality, poverty, population growth and energy with environment, and strategies for implementation of sustainable development.

### **BECD 2214 Child Care Terrain and Observation**

This course surveys the characteristics of a positive environment that meets the needs of individual children. It also equips the student with professional practices of creating a positive environment and those ingredients that produce quality.

### **BECD 3115 Mathematics Education in Early Childhood Education**

The course surveys the concept of mathematics; objectives of teaching mathematics in nursery and lower primary classes; children's early mathematics experiences and concepts; number work and activities for pre-school; Piaget's implications to the teaching and learning of mathematics; the role of the teacher/children in learning of mathematics; integrating mathematics with other learning areas; monitoring and assessing learning of mathematics. Development of materials for teaching/learning mathematics to young children will also be covered.

### **BECD 3117 Science Education in Early Childhood Education**

The course introduces the student to the concept of science; a child's concept of science; development of science concept – the role of the family, school and society; teaching methods - explanation, discussion, play/discovery, problem solving. It also deals with integration of the lower primary Health and Basic science syllabus; development of materials to be used in Science Education; Integration of Science Education with other learning areas and assessment of children's performance in Science Education.

### **BECD 3219 Child Abuse and Related Laws and Policies**

This course aims at making a substantial contribution to equipping students with competences to enable them to promote full implementation of the international and national conventions which guarantee protection of children's rights. It also equips students with appropriate technical knowledge and skills for child care and protection.

### **BECD 3116 Aptitude Development, Learning Games, Materials and Media**

This course looks at the stages of development and learning, provision of an environment that supports and encourages learning through play, and the various learning games. It also looks at the role of the adult in supporting children's learning and development plus the principles of effective communication.

### **BECD 3221 Current Issues in Early Childhood Education**

This course is an evaluation of the concept of nursery/pre-school education; the national philosophy of Early Childhood Education; the head-start programs; modern trends in Early Childhood Education; day care centers; boarding nursery schools; entrance interviews and Early Childhood Education – past and present.

### **BECD 3118 Evaluating Children's Work**

This course is designed to give the student an understanding of methods of assessing children's development and behavior. It also gives the student knowledge and skills of how assessment records are used.

### **BECD 3220 Child Related NGO's and their Functions**

The course introduces the student to various NGO's such as World Vision, UNICEF, MADRASA, Save the Children's Fund, and Child Fund which support ECD programs that provide services to children (0-6 years). Support given includes health and nutrition education, training formal and non-formal ECD individuals such as trainers, administrators, day care workers, teachers, and parents.

### **BECD 3222 Providers' Performance Skills, Tasks and Traits**

This course introduces the student to the professional performance skills, tasks and traits. It explains how a child care professional displays his character while handling young children. It further looks at qualities, roles, and responsibilities of the child care provider. Further, the course describes opportunities for continuing education in the child care field. The course also helps the student learn how to balance work and personal life while teaching young children.

## **RELIGIOUS EDUCATION PRIMARY DEGREE COURSES**

### **BPRE 1101 Introduction to the Bible**

*This course introduces the religious education student to such concerns as how we got the Bible, the authority and inspiration of Scriptures, basic Bible content, comparative religious studies, how to understand the Bible, and issues of human origins. The course also provides an introduction to the historical and anthropological contexts from which the biblical writings emerged as well as the internal structure of the Bible. Attention will be given to the emergence from ancient Hebrew writings of what we call "Judaism" and to the later appropriation of the Hebrew Scriptures by radicalized, Greek-speaking Jews, who called themselves "Christians." Themes of the course include the invention of the concept of God, the invention of the related concept of history, the invention of the concept of the city, and archeological discoveries.*

### **BPRE 1102 World Religions**

This course is an introduction to world religions, and to the religious traditions of the world such as African religions, Hinduism, Buddhism, Confucianism, Taoism, and Judaism, Christianity and Islam and other religions. Primal or “oral” religions will also be studied and contrasted with “historical” religions. The course examines the historical evolution, the fundamental doctrines and beliefs, the practices, institutions and cultural expressions of these religious traditions. Special emphasis will be placed on how people have lived out their religious beliefs through ritual, relationships, and community life. The course also deals with some of the essential differences and similarities which exist among each religious tradition, and points to the uniqueness of each of them.

### **BPRE 1103 Marriage and Family**

Students will examine the family as a social institution: its historical origins, forms of organization, interaction patterns, conflict, and change as well as ethnic and cultural differences. Students will be exposed to the background of marriage and family systems throughout the world. Attention will be given to topics such as love, gender roles, sexuality, family violence, communication and conflict, separation and divorce, and remarriage and stepfamilies. Emerging forms of family, dating and intimacy will be discussed.

### **BPRE 2104 Pentateuch and Hexateuch**

This course surveys the Pentateuch and Historical books with emphasis on those historical events which bear upon God’s unfolding plan to save humankind. Selected themes with salvation implications are explored in a special way as books of the Old Testament are surveyed. Questions of introduction and content of the Pentateuch will be addressed with special emphasis on themes and passages of great theological import. Comparisons of the life, laws, literature, customs and institutions of Israel with those of the present day will be made.

### **BPREL 2205 African Traditional Religious Beliefs**

The study is designed to enlighten students on the distinctive beliefs and practices of African Traditional Religions. It provides a general knowledge of the basic teachings and practices and their contribution to their societies. The course emphasizes the different approaches of teaching cultural values and norms, and the appreciation of African beliefs at the primary school level.

### **BPRE 2206 Old Testament Prophets**

This course studies the phenomenon of prophecy in ancient Israel and the prophetic literature in the Hebrew Bible. It provides an introduction to prophecy and the prophetic literature in the Near East. It surveys the biblical prophetic books and their main topics, paying special attention to the political and socioeconomic context of the Near East and Israel in which they appeared. It reflects on the modern relevance and applications of the prophetic texts.

### **BPRE 2207 Studies in the Gospels**

This is a comprehensive study of the life and teachings of Jesus as unfolded in the four gospels with analytic attention to the gospel writers and their writings in an attempt to reveal the impact of His self-revelation on His age and ours. Emphasis is placed on the teachings’ relevance and application to contemporary society.

### **BPRE 3108 Psalms and Wisdom Literature**

This course surveys the Psalms and Wisdom Literature of the Hebrew Bible, primarily the Psalms and the books of Proverbs, Job, Song of Songs, and Ecclesiastes. The focus is the unique contribution of each book to the wisdom tradition of ancient Israel. Ways to apply its teachings in the 21st century will be emphasized.

### **BPRE 3109 Religious Ethics**

This course is a study of the structure and content of religious ethics: goal, motive, and norm of Christian life; with an analysis of ethical issues of authority, life, sexuality, property, and truthfulness. It also explores the basic principles of Christian ethics as derived from the knowledge of God and their applications to personal, social, traditional, professional, economic, political, and moral issues especially as they relate to the ongoing human life and work of God in Africa in relation to ethical decision making.

### **BPRE 3210 Acts and Epistles**

The course traces the progress of the first century church as it advanced geographically from Jerusalem to Rome and ethnically beginning with the Jews and gradually including the gentiles. The course will involve a survey of apostolic history, a discussion of the history and message of the book of Acts, consideration of the life, mission, and message of Apostle Paul, and evaluation of the individual letters in their relationship to apostolic history and the life of the church. It will also survey the historical setting, structure, contents, and message emphases of the epistles, and attention is given to matters of current application.

### **BPRE 3211 History of the Christian Church**

This is an introduction to the establishment, spread and development of the Christian faith up to and including the Church Council of Nicea in 325 CE, paying particular attention to major trends, personalities, and events that influenced the life of the church as it took shape in the Jewish culture and the Greco-Roman world. The course further surveys the history of the Christian Church from the Protestant reformers to the modern denominations, world-wide mission expansions, and the ecumenical movement up to the present day.

## **SOCIAL STUDIES PRIMARY DEGREE COURSES**

### **BSST 1101 World Regions and Man's Environment**

This course introduces students to the different major world environments in which mankind has adapted to and how he has been able to earn a living. It also enables students to compare the life pattern of different environments with that of their own local environments. It also aims at enabling students to learn the set up and organization of the climatic regions of the world and recognize man's varied activities in each climatic region. This course also tackles the world major resources, distribution and utilization.

### **BSST 1202 Population, Resources and Development**

This course is intended to widen students' knowledge of the meaning of population, population structure, resources, types of resources, and their exploitation and utilization for development. It also deals with the relationship between population and resources in relation to development. It will also look at challenges of population growth rates and solutions to these challenges.



### **BSST 2103 Evolution of African Societies**

The course covers with sources of African History, the development and spread of agriculture and iron working in Africa, classification of African peoples by race and language, the development of early African states like Egypt, Kush (Nubia) and Axum in North East Africa, the spread and impact of Islam in North Africa, West Africa and East Africa. It also surveys the development of Sudanic states of Ghana, Mali, Songhai; the East African Coast; the Great Region Kingdoms; and Great Zimbabwe as well as the development and effects of slave trade on African societies.

This course also discusses the history of man in East Africa beginning with Stone Age man in East Africa and archaeological sites in East Africa. It deals with migrations and settlement of modern African societies in East Africa; for example, Bantu, Nilotes and Kushites. The development of centralized states in the great lakes region will be covered as well as the political, economic and social organization of selected communities from the region. It will also cover the migration and influence of the Middle East people to the East African coast and colonial rule up to attainment of independence for the modern East African states.

### **BSST 2104 Rural Economy, Self-reliance in East Africa.**

This course deals with the problems rural farmers face and tries to seek ways of improving their economic life. It discusses the difference between subsistence and modern farming, causes of rural poverty, causes, effects and solutions of rural-urban migration. The role of cooperative societies, their structure, objectives and problems, the role of credit unions, microfinance, 'prosperity for all' and similar organizations in other parts of East Africa will also be covered.

### **BSST 2205 Economic and Political Integration in Africa**

This course traces the origin and concepts of political and economic integration in Africa. It will include the following; the origin and concepts of Pan Africanism and early political and cultural aspirations; Pan African movement leading up to independence in the 1960s; regional political formations; the development of closer unions in East Africa leading up to the first East African Community and its failure; attempts to form the East African Federation; the OAU, its origin, achievements and failures; the African Union; Economic cooperation in Africa and advantages of regional integration in Africa with special emphasis on EAC, ECOWAS, COMESA and SADC.

### **BSST 2206 World Affairs since 1945**

This course is rooted into the background information of quest for peace and human rights in the world with emphasis on causes of conflict situations, solutions to conflicts, World War I and II. It aims at acquainting students with knowledge and current concepts on the challenges to international efforts to preserve and maintain peace and human rights in the world.

### **BSST 2207 Map, Photo and Fieldwork Skills**

This course focuses on map, photo and fieldwork skills which are necessary in Social Studies teaching and learning and which will introduce students to making, reading and interpreting maps and photographs as well as skills of planning fieldwork and basic data collection methods with more emphasis on observation.

### **BSST 3108 Africa after Independence: Challenges**

The course deals with the political, social, and economic problems African countries faced after independence. It evaluates how Western democracy failed in many African countries and Capitalism versus Socialism. Other topics include the effect of the cold war on African states, military coups, one party rule, problems of ethnicity in African

politics, civil wars, famines and environmental problems. The course offers students an opportunity to air their views on the way forward for African countries in political and economic affairs.

#### **BSST 3109 Government and Politics in East Africa**

This course deals with how East African governments function. It will discuss some major aspects of national constitutions; divisions of power among the executive, legislature and judiciary; human rights; the roles of the police and the army, local government; decentralization; regionalism. It also discusses how bills pass through parliament.

#### **BSST 3210 Europe: Developed Economy**

This course focuses on the role of political decisions in developing economies such as that of man and his co-operation in changing and developing the environment in Europe. Focus will be on the Rhineland.

#### **BSST 3211 USA: Developed Enterprise Economy**

The course surveys the background of the phenomenon of private enterprise in USA and its contribution to the development of large scale farming and industrialization.

#### **BSST 3212 Asia: Population, Resources and Development**

This course surveys the resource potential and distribution in selected countries of Asia such as Japan, China and India. It also looks at the utilization of the limited resources, a basis for development.

### **ENGLISH LANGUAGE PRIMARY DEGREE COURSES**

#### **BPLE 1101 Introduction to the Study of Language Theories and Language Learning**

The course surveys definitions of Language; functions of Language in Society; theories of Language Origin; Spoken and Written Languages; Classification of Languages; Language and the Individual. The course also covers theories of language learning; L1 acquisition; L2 learning/acquisition: the language environment; internal monitor model and related hypothesis; the bilingual; individual learner differences: effects of age; the critical period hypothesis, the 'good' language learner; input and interaction: 'Motherese' and L1 Acquisition, sources of L2 input, formal and natural setting; implications for language teaching in Primary Teachers' Colleges and Primary Schools.

#### **BPLE 1202 Introduction to Linguistics, Stylistics and Literature**

The course covers the following topics: Definition of Linguistics; Origin and Value of Language; History of Linguistics and Its Sub-divisions; Phonology of English; English Morphology; Pedagogical Implications.

It is also surveys the scope and study of style; concept of and approaches to Style; stylistic and non-stylistic selections; stylistics analysis; levels of stylistics analysis; procedure and organization of analysis and patterns of Literary Language.

#### **BPLE 2103 The Structure of Selected African Languages**

The course is an In-depth study of the following; - One African Language: its Phonology, standard orthography, morphology, syntax and semantics; a comparative analysis with other African Language. Possible Languages for study are as follows: Luganda, Runyoro/Rutooro, Runyankole/Rukiga, Luo, Ateso/Ng'akarimjong, and Kiswahili.



### **BPLE 2104 Professional English**

The course covers Oral Communication: presentations, interviews, using a telephone, formal meetings; Written Communication: report writing, formal/business letter writing, curriculum vitae, memorandum, telegram/telex; writing minutes of a formal meeting; Academic Writing: essays, notes-making, writing references/bibliographies, and Questionnaires.

### **BPLE 2205 Advanced Grammar**

This course surveys sentence analysis using traditional grammar diagrams; syntax error analysis; vocabulary development; spelling; punctuation; and general grammatical propriety in both oral and written discourse.

### **BPLE 2206 Literature in General (Written)**

This course covers literary features/aspects; literary genres: prose (fictional and non-fictional), poetry, and drama; in-depth study of selected texts; application of literary texts in language teaching.

### **BPLE 2207 Advanced Language Skills**

This course deals with practice in the four basic language skills: delivering speeches; person to person communication; group discussions, taking dictations; reading and comprehension; effective and ineffective reading habits; writing essays and summaries.

### **BPLE 3108 Literary Creative Arts**

The course involves creating written fictional and non-fictional piECDs based on real life experiences in form of short stories, plays, poems, essays, and articles for newspapers, newsletters, magazines or journals. The course is intended to help the learner create work that is informative as well as entertaining. Further, the course will deal with why people write, the different types of writers, writing with style, editing and proofreading.

### **BPLE 3109 Language Curriculum Design and Development**

The course surveys the general principles of materials writing; some basic principles of communicative materials design; concept of 'task' in task-based language teaching; use of texts as 'input' in language teaching materials; matching task types with syllabus objectives; designing learning tasks for the four language skills; integration in materials writing; designing a unit and evaluating samples of language teaching materials.

### **BPLE 3110 Language in Society and Language planning**

The course is about language variations within a society: bilingualism and multilingualism, status of language; variations within one language within a specific socio-cultural perspective; communication for language teaching; implications for language teaching; the problem of English in the developing countries (a threat to socio-cultural identity), the need to teach communicative competence above linguistic competence, strategies for teaching commutative competence; the language situation in a multilingual society; stages and activities in language planning; factors affecting language planning; bilingual education: minority languages in school; the language policy in Uganda and other east African countries.

### **BPLE 3111 Adult Language Learning**

The introduces the student to the understanding of the adult, his cognitive level and background knowledge; differences between child and adult language learning/acquisition; the formal and non-formal modes of adult language learning; materials and methods; the teacher's role as a facilitator; resources and support systems.

**BPLE 3112 African Oral Literature**

The course surveys the scope of African oral literature; justification of African oral literature in the curriculum; African oral literary forms; collection and interpretation of African oral literature in English and African oral literature in students' (course participants) languages.

*NB. Kiswahili Primary Degree shares courses for Kiswahili Secondary degree. Check Bulletin for Secondary Course Descriptions.*

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