

THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences is the University's welcoming and service college to the various colleges in the University. It offers the 52 credit hours of general education that each student must complete before they can proceed to their professional courses. It also offers several four-year-degree programs in the arts and sciences to include: *Bachelor of Science in Environmental Studies, Bachelor of Science in Biology, Bachelor of Arts in Psychology, Bachelor of Arts in English, and Bachelor of Arts in Performing Arts*

Vision

The College aspires to be the center of excellence in teaching, advising, research, and community service.

Mission

It aims to expose students to quality experiential and service learning in order to transform them not only to have worthy and meaningful lives but to become productive and efficient leaders of the society.

General Education

It is mandatory for every student to successfully complete the required 52 general education credits of the university.

Table of Approved General Education Courses

FRESHMAN SEMESTER 1			FRESHMAN SEMESTER 2		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
ENGL 101	Grammar and Phonetics	3	ENGL 102	Academic Reading and Writing	3
MATH 101	College Algebra	3	MATH 102	Analytical Geometry & Trigonometry	3
BIO 101	General Biology	4	CHEM 101 or PHY 101	Principles of Chemistry Introduction to Physics	4
PSY 101	Introduction to Psychology	3	PHIL 101 SSC 101 SOCI101	Introduction to Philosophy or Liberian Society, Issues and Problems Introduction to Sociology	3
CSE 101	Introduction to Computers	3	CSE 102	Computer Literacy	3
PED 101	Physical Fitness and Wellness I	1	PED 102	Physical Fitness and Wellness II	1
TOTAL		17			17

SOPHOMORE SEMESTER 1			SOPHOMORE SEMESTER 2		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
ENGL 201	Technical Communication and Public Speaking	3	ENGL 204	Introduction to Literature	3
EVS 201	Intro to Environmental Science	3	FRE 102 GLE 102 CHN102	Intermediate French Advanced Glebo Advanced Chinese	3
FRE 101 GLE 101 CHN101	Introduction to French Introduction to Glebo Introduction to Chinese	3	HIST101 HIST102	Liberian History and Society or World History	3
TOTAL		12			6
GRAND TOTAL					52

**Qualifying exam must be passed for student to pursue junior year courses*

Bachelor of Arts in Psychology

This degree is designed to adequately prepare students for graduate work in psychology and other advanced liberal arts and social sciences degrees. It provides a pathway for students wanting to become school counsellors, mental health specialists, and prepares them for professional schools like law, international/foreign service, advanced nursing and public health, medicine/dentistry, and divinity. As such, psychology graduates will develop the ability to conduct, interpret and apply psychological research. Moreover, the courses selected will accord them a comparative advantage to compete nationally and globally. This will enhance not only the students' capacity to engage in the global academic community of science, widen their options for employment or admission to graduate and professional schools but, comprehensively, empower them to make a contribution toward the fulfillment of the purpose for which psychology as a discipline came into being. That purpose was and remains the enhancement of human welfare plus transformative participation in national development. Business, industry and government want a stress-free environment. And so, they often rely on psychology graduates to help make that happen. Similarly, a vast segment of modern criminology relies heavily upon psychology in areas like forensics, physiognomy/identity, cognition, perception, and information processing. Business, education, and nursing students will find a psychology minor to be useful to their future careers

Learning Objectives:

The program aims to:

- Develop students' knowledge and skills in the social sciences
- Develop professional capacity in the health, educational, business and governmental sectors, and
- Be distinguished nationally and internationally through teaching and research activities

Learning Outcomes

Upon completion of the program, the graduate is expected to

- Demonstrate ability to apply critical thinking and problem-solving skills to address local and international challenges in mental health, school counselling, community psychology and other orbits of psychology, to the extent possible/required to include quantitative and qualitative reasoning and research skills, including accessing information from a variety of sources and media;
- Demonstrate ability to read, analyze, organize, and synthesize data interpretations connected to theoretical paradigms in all the major facets of psychology;
- Demonstrate ability to appreciate and thoroughly understand all the major perspectives, theoretical foundations, innovations, paradigms, paradigm shifts, and theorists associated with the discipline of psychology;
- Appreciate the scientific knowledge and skills in psychology that are requisites for enhancing active participation and social transformation;
- Communicate psychology reports professionally;
- Demonstrate his/her knowledge and training for careers and further academic development in psychology or related areas.

Program Objectives:

The Program in Psychology strongly endeavors to:

- Prepare students to earn a BSc in Psychology;
- Prepare graduates for professional careers or further education in graduate psychology studies;
- Ensure graduates' proficiency and competence in the discipline of psychology;
- Produce graduates who will pursue professional development;

- Emphasize leadership, critical thinking and problem-solving skills, and technologically innovative methods to facilitate the learning process, while impelling the students to engage in personal and professional development for lifelong learning.

Core Competencies:

Upon completion of the Program, the graduates will attain the:

- Competency in knowledge and skills required for psychology and other social sciences related education careers;
- Ability to become aware of different perspectives emanating from culturally diverse populations and the ability to effectively communicate with such diverse audiences;
- Competency in the use and application of advanced analytical tools in psychology via technology.
- Basic understanding of psychological principles, and
- Application of critical thinking and problem solving in order to enhance their understanding of all the fundamentals and depth principles of psychology;

Career Options for Graduates

Upon completion of the program, graduates will have the option to become Human Resource Coordinator, School Counsellor, Foreign Service Officer, Mental Health Specialist, Legislative Assistant, Political Consultant, Community Service/Development Advocate, and Marketing/Advertising Executive/Consultant.

Entry Requirements

After completing the General Education requirements at William V.S. Tubman University, students applying for admission into the Psychology Program must meet the minimum admission requirement of 3.00 Grade Point Average.

Duration of Study

The curriculum is structured for a four-year period with emphasis on class lectures, labs/practicum, and internships. During the first two years of study, students will be diligently guided and advised by a special academic team of the Psychology Program.

Basic Criteria for the Psychology Major

The Psychology Major will consist of 48 credit units taken within the discipline following the completion of the general education requirements (56 credit units). Because of the interdisciplinary nature of the field and the need to develop a background in basic science and relevant social sciences, such as sociology, the health and biological sciences, anthropology and education, the total number of courses required for the degree is 125.

The number of courses required would allow majors to take a broad selection of psychology courses and electives as well as to develop the area of concentration in one of 3 units. Students would be encouraged to participate in its research activities, including laboratory courses and independent study experiences. Three lab/applied experiences are required.

Students planning to major in psychology are advised to secure a background in the basic sciences and relevant social sciences, preferably before their junior year.

Areas of Concentration

Areas are drawn from both required and elective courses to provide a framework for a specific sub-discipline. To complete an area of concentration, majors should be sure to take all of the courses listed for the particular area. It is recommended that courses from other fields be interspersed with psychology courses early, preferably in the sophomore year.

Concentrations

1. Industrial/ Organizational Psychology
 - Social Psychology
 - Community Psychology
 - Industrial/Organizational Psychology
 - Tests and Measurements
 - Relevant Management College Courses

2. Community Psychology and Advocacy
 - Social Psychology
 - Community Psychology
 - Psychology of Peace and Violence
 - Relevant Anthropology and Sociology Courses
 - Political Psychology
 - International/Ecological Psychology

3. Individual/ Clinical Psychology
 - Developmental Psychology
 - Theories of Personality
 - Abnormal Psychology
 - Clinical Psychology
 - Psychology of Addiction
 - Relevant Counselling and Guidance Courses

Bachelor of Arts in Psychology

Freshman Year

First			Second		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
ENG 101	English Grammar and Phonetics	3	ENG 102	Academic Reading and Writing	3
MATH 101	College Algebra	3	MATH 102	Analytical Geometry and Trigonometry	3
BIO 101	General Biology	4	CHEM 101	Principles of Chemistry	4
PSY 101	Intro to Psychology	3	PHI 102	Intro to Philosophy	3
CSE 101	Introduction to Computers	3	CSE 102	Computer Literacy	3
PED 101	Physical Fitness and Wellness I	1	PED 102	Physical Fitness and Wellness II	1
Total		17	Total		17

Sophomore Year

First			Second		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
ENG 103/ AGR 205	Technical Communication and Public Speaking	3	ENG 204	Introduction to Literature	3
SOC 101	Introduction Sociology	3	FRE/ GRE/ CHI102	Advanced French/ Grebo /Chinese	3
FRE/ GLE/ CHI101	French/ Grebo/ Chinese	3	PSY 102	Developmental Psychology	3
HIST 102	World History	3	PSY 104	Statistics with Laboratory	3
EVS 201	Introduction to Environmental Science	3	PSY 106	Psychology of Peace and Violence	3
PSY 103	Psychology of Human Diversity	3	PSY 108	Research Methodology and Critical Issues in Psychology	3
Total		18	Total		21

Third Year

First			Second		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
PSY 205	Psychology of Religion and Spirituality	3	PSY 306	Biological Basis of Psychology	3
PSY 305	Learning, Motivation, and Cognition	3	PSY 308	Psychology of Language	3
PSY 307	Sensation and Perception	3	PSY 309	Psychology of Language Lab	1
PSY 311	Introduction to Industrial/Organizational Psychology	3	PSY 310	Theories of Personality within Collectivist Cultural Context	3
PSY 313	Community Psychology and Advocacy within the Liberian and African Context	4	PSY 312	Social Psychology and Its Application to Contemporary Social Problems	3
PSY 315	Introduction to Clinical Psychology	3	PSY 314	Abnormal Psychology	3
Total		19	Total		16

Fourth Year

First			Second		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
PSY 415	Environmental Psychology	3	PSY 316	Cognitive and Emotional Aspects of Child Development	3
PSY 417	Neuropsychology	3	PSY 416	Health Psychology	3
PSY 419	Psychology of Gender	3	PSY 418	Psychology of Human Sexuality	3
PSY 421	Tests and Measurements	3	PSY 420	Political Psychology	3
PSY 423	History and Systems of Psychology	3	PSY 422	Psychology of Addiction	3
Total		15	Total		15

Bachelor of Science in Environmental Science

Program Description:

The foundation of this program is twofold: first, healthy living and working environments are critical to the Government of Liberia's Poverty Reduction Strategy (PRS) for national well-being. Secondly, conservation of the environment is fundamental to sustainable national development and necessary for the achievement of the seventh Millennium Development Goal (MDG). However, efficient management of the natural resource base and the environment requires appreciation of their value and attainment of the pertinent knowledge and skills. Thus, the primary intent of the Environmental Science Curriculum is to produce a program that will enable students to think critically, understand complex environmental issues, and facilitate environmental literacy on the campus and in the community. Integrating knowledge and skills from several disciplines and a diverse faculty, the program comprises courses in the humanities, natural and social sciences, environmental science core, and environmental science skills.

An Environmental Science degree will heighten students' chances for employment or educational opportunities as well as their ability to meaningfully contribute to national development. It will help build the human and institutional capacity in environmental and occupational health as well as environmental conservation in Liberia. Although a number of public agencies and private organizations in the country are mandated to manage the natural resource base or conduct environmental monitoring, most are limited, they are either limited in the quantity and quality of staff, technical resources (National Environmental and Occupational Health Policy, 2010) or trained human resources (Liberia's National Biodiversity Strategy and Action Plan, 2005) available to implement environmental health policies or manage the natural resource base. This deficit has stimulated an insatiable demand for manpower with environmental science knowledge and skills.

Given the compelling need to remedy the dearth of environmental scientists in the country, this curriculum provides the framework for an Environmental Science Program at the William V.S. Tubman University. Once approved, the requisite curricular elements including course syllabi, laboratory protocols, and instructional materials will be developed for its implementation.

Program Objectives

Upon completion of the program, the graduates will be in the position to:

- Appreciate environmental health and sustainability by integrating knowledge from the natural and social sciences;
- Critically explore the impact of human activity on the environment to control or mitigate their effects;
- Apply critical thinking and problem-solving skills to address environmental problems;

- Appreciate the environment to promote participation and social considerations in future environmental decisions;
- Communicate scientific reports professionally;
- Acquire knowledge and training for careers and further academic development in environmental science or related areas.

Program Learning Outcomes

Upon completion of the Environmental Science program, the graduate will be able to:

- Apply ecological, chemical, waste management, processes of environmental components (air, water, soil), health and social concepts to environmental issues;
- Explain the complexities of the natural components of the environment;
- Discuss renewable resources;
- Discuss the formation and implementation of major environmental laws and regulations;
- Conduct risk assessment to determine environmental impacts;
- Evaluate economic and social concepts that promote sustainable natural resource base and environmental health;
- Analyze data using appropriate statistical methods
- Demonstrate basic map reading, computer applications, and use spatial analysis software such as GIS, Google Earth and Google Maps in fieldwork;
- Communicate reports effectively through written and oral presentations to diverse audiences.

Strategic Action Plan

The implementation of the Environmental Science Program will be guided by the following actions:

- Developing a curriculum that considers the strengths of the faculty and other resources to meet the expectations of graduate programs and potential employers;
- Promoting expansion into graduate programs such as environmental science-related professional or Master's program;
- Encouraging diversity in recruitment of faculty across related disciplines in the College of Arts and Sciences
- Exploring collaboration with other ENVS programs nationally and internationally through faculty and student exchange and shared resources;
- Promoting the program nationally and internationally through presence at local, national, and international conferences and symposia;
- Organizing an on-campus speaker series by inviting leaders in the ENVS to speak to students, faculty, staff, and the community;
- Initiating recruitment of student body through formal recruiting activities (e.g. organized by the admission office, etc.)
- Seeking external assessment of the program from peer institutions to make suggested improvements in accordance with the vision and mission statements;
- Identifying and encouraging participation and leadership roles in active

community service and service learning projects and formal programs for students, staff and faculty in ENV5;

- Encouraging faculty and staff development within the ENV5 program and related disciplines;
- Assisting associated departments in CAS to develop partnerships with international universities or other agencies for curriculum and collaborative research effort;
- Establishing formal assistance process for employment placement for graduating seniors.

Core Competencies

Upon completion of the Program, the graduate will attain the:

- Scientific understanding of the complexities of the environment;
- Ability to effectively communicate with diverse audiences;
- Competency in the use and application of Geographic Information Systems (GIS);
- Basic understanding of environmental policy,
- Ability to contribute to multidisciplinary teams; and
- Competency in knowledge and skills required for environmental science careers.

Career Opportunities for Graduates

Upon completion of the program, graduates will be encouraged to seek career opportunities with public and private entities in Liberia:

Career Opportunities include:

Program managers, environmental and occupational health officers, technicians (county and district levels), fishery observers, fishery observer-managers, wildlife managers, biosafety officers, biodiversity officers, or ES teachers, etc.

Public and Private Entities:

- Government agencies (e.g., EPA-L, FDA, Commerce, Health, Agriculture, Transport, Lands and Mines Ministries; MCC, LWSC, etc.)
- Environmental consulting firms and non-governmental organizations (Green Peace, WWF, IUCN, SCNL, CI, FFI, etc.)
- Environmental research laboratories

Entry Requirements

Students admitted into the Environmental Science Program must meet the minimum admission requirements of the William V.S. Tubman University.

Duration of Study

The curriculum is organized with emphasis on classroom instruction and practical. A synopsis of the academic timetable for completing the degree in four year is provided below. During the first two years of study, students will receive general advising from the Environmental Sciences Academic Program. They will take and complete courses in general education, natural sciences, and humanities.

Bachelor of Science in Environmental Science

Freshman Year

Semester I			Semester II		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
ENG 101	Grammar and Phonetics	3	ENG I02	Academic Reading AND Writing	3
MATH 101	College Algebra	3	MATH 102	Analytical Geometry and Trigonometry	3
BIO 101	General Biology	4	CHEM 101	Principles of Chemistry	4
PSY 101	Introduction to Psychology	3	PHIL 101	Introduction to Philosophy	3
CSE 101	Introduction to Computer	3	CSE 102	Computer Literacy	3
PED 101	Physical Fitness and Wellness I	1	PED 102	Physical Fitness and Wellness II	1
	TOTAL	17		TOTAL	17

Sophomore Year

Semester I			Semester II		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
ENG 201	Technical Communication and Public Speaking	3	ENG 204	Introduction to Literature	3
EVS 201	Introduction to Environmental Science	3	FRE 102 GLE 102 CHN102	Intermediate French Advanced Glebo Advanced Chinese	3
HIST 102	World History and Western Civilization	3	EVS 202	Ecology and Biodiversity	3
FRE 101 GLE 101 CHN 101	Introduction to French or Introduction to Glebo Introduction to Chinese	3	EVS 204	Environmental Chemistry and Hazardous Materials	4
PHY 101	Introduction to Physics	4	EVS 206	Environmental Physics	3
			EVS 208	Statistics for Environmental Science	3
	TOTAL	19			16

Junior Year

Semester I			Semester II		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
EVS 301	Watershed, Wetlands and Uses	3	EVS 302	Atmosphere, Ocean, and Climate Change	3
EVS 303	Remote Sensing and GIS	3	EVS 304	Natural Science Management	3
EVS 305	Environmental Health and Toxicology	3	EVS 306	Waste Management	3
EVS 307	Population, Agriculture and Environment	3	EVS 308	Environmental Pollution	3
EVS 309	Environmental Microbiology	3	EVS 310 EVS 318	Marine Biology Forest Ecology and Conservation	3
EVS 311	Junior Seminar I	2	EVS 312	Junior Seminar II	2
	TOTAL	17		TOTAL	17

Senior Year

Semester I			Semester II		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
EVS 401	Fish and Wildlife Management	3	EVS 402	Hazards and Disaster Management	3
EVS 403	Energy and Environment	3	EVS 404	Environmental Impact Assessment	3
EVS 405	Analytical Techniques and Instruction	3	EVS 406	Conservation Biology	3
EVS 407	Global Climate Change	3	EVS 408	Environmental Laws and Policy	3
EVS 409 EVS 411	Field Methods in Ecology Environmental Policy Formulation	3	EVS 420	Project /Internship	2
EVS 419	Research Methodology	1			
	TOTAL	16			14

Bachelor of Science in Biology

Program Description

This curriculum is customized to thoroughly prepare students for medical school, teaching high school biology, or for further studies in the life sciences. As such, the courses selected introduce students to contemporary areas in biology and related areas to afford them a competitive academic edge nationally and globally. This will enhance not only students' readiness to engage in the global science community, increase their chances for employment or admission to graduate and professional schools but, more so, boost their contribution to national development.

Program Objectives

The Program in Biology endeavors to:

- Prepare graduates for professional careers or further education in graduate programs;
- Ensure graduates' proficiency and competence in the medical or life sciences;
- Produce graduates who will pursue professional development;
- Promote leadership, critical thinking skills, and information literacy, while facilitating students' personal and professional development for lifelong learning;

Learning Objectives:

The program aims to:

- Provide opportunity to enhance critical thinking and problem-solving skills to address local and global challenges in health and science education.
- Enhance ability to appreciate the scientific knowledge and skills to promote participation and social considerations in future scientific decisions;
- Enhance communicative proficiency in making scientific; and
- Provide opportunity for students to acquire knowledge and training for careers and further academic development in biology or related areas.

Learning Outcomes

At the end of the program the student are able to:

- Demonstrate competency in knowledge and skills required for medical and science education careers;
- Demonstrate ability to effectively communicate with diverse audiences;
- Demonstrate competency in the use and application of biological instruments;
- Demonstrate basic understanding of biological principles; and
- Demonstrate ability to apply critical and analytical thinking skills for problem-solving and understanding scientific principles.

Career Options for Graduates

Upon completion of the program, graduates will have the options to become: Biology teacher, Public Health officer, water plant technician, environmental protection officer, laboratory director, laboratory technician, environmental consultant, industrial hygienist, safety supervisor, and food safety specialist.

Entry Requirements

Students admitted into the Environmental Science Program must meet the minimum admission requirements of the William V.S. Tubman University.

Duration of Study

The curriculum is organized for a four-year period with emphasis on classroom instruction and practicum. The first two years of study will involve students receiving general advising from the Biology Academic Program. They will complete the general educational requirements as required by the University.

Bachelor of Science in Biology

Freshman Year

Semester I			Semester II		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
ENG 101	Grammar and Phonetics	3	ENG 102	Academic Reading AND Writing	3
MATH 101	College Algebra	3	MATH 102	Analytical Geometry and Trigonometry	3
BIO 101	General Biology	4	CHEM 101	Principles of Chemistry	4
PSY 101	Introduction to Psychology	3	PHIL 101	Introduction to Philosophy	3
CSE 101	Introduction to Computer	3	CSE 102	Computer Literacy	3
PED 101	Physical Fitness and Wellness I	1	PED 102	Physical Fitness and Wellness II	1
	TOTAL	17		TOTAL	17

Sophomore Year

Semester I			Semester II		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
ENG 201	Technical Communication and Public Speaking	3	ENG 204	Introduction to Literature	3
EVS 201	Introduction to Environmental Science	3	FRE 102 GLE 102 CHN102	Intermediate French Advanced Glebo Advanced Chinese	3
FRE 101 GLE 101 CHN 101	Introduction to French or Introduction to Glebo Introduction to Chinese	3	BIO 202	General Zoology	4
HIST 102	World History and Western Civilization	3	CHEM 202	Inorganic Chemistry	4
PHY101	General Physics	3	BIO 206	Bio-Statistics (for Bio Students)	3
CHEM 201	Organic Chemistry	4			
	TOTAL	19	TOTAL		17

Junior Year

Semester I			Semester II		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
BIO 301	Invertebrate Zoology	4	BIO 302	Animal Parasitology	4
BIO 303	Comparative Vertebrate Anatomy	4	BIO 304	Histology and Micro-techniques	4
BIO 305	General Microbiology	4	BIO 306	Cytology and Pathology	4
BIO 307	Entomology for (Bio Students)	4	BIO 308	Vertebrate Embryology	4
BIO 309	Seminar I	1			
	TOTAL	17		TOTAL	16

Senior Year

Semester I			Semester II		
Course Code	Course Title	Credit Hours	Course Code	Course Title	Credit Hours
CHEM 401	Physical Chemistry	3	BIO 402	General Biochemistry	4
BIO 401	Ecology and Organisms	4	BIO 404	Immunology	3
BIO 403	Molecular Biology	3	BIO 406	Genetics and Genomics	4
BIO 405	Survey of Human Anatomy and Physiology	4	BIO 408	Research Project II	1
Bio 407	Research Project I	1			
	TOTAL	15		TOTAL	12