

<b>ZOO 2205</b>	Introduction to Microbiology and Biotechnology	2
	<b>Subtotal 7 (or 9)</b>	
<b>YEAR III: Semester I (Core Courses)</b>		
ZOO 3102	Hydrobiology	4
<b>Electives (Take at least ONE)</b>		
ZOO 3104*	Human Ecology	2
ZOO 3105**	Commercial Entomology	2
<b>*BOT 1202 is a Prerequisite to ZOO 3104</b>		
<b>**ZOO 2102 is a Prerequisite to ZOO 3105</b>		
<b>Semester II</b>		
<b>Electives</b> <i>Take at least ONE but NOT more than TWO</i>		
ZOO 3203	Aquaculture	3
ZOO 3204	Applied Parasitology	3
ZOO 3205	Fisheries Biology	3

<b>ZOO 3206*</b>	Integrated pest and vector management	3
<b>ZOO 3207**</b>	Applied Ecology	3
<i>*ZOO 2102 is a Prerequisite to ZOO 3206</i>		
<b>**BOT 1202 is a Prerequisite to ZOO 3207</b>		

#### Note

1. To qualify for a minor in Zoology, a student must pass all the core courses offered at Advanced Level in Zoology.
2. The list of electives offered in a particular semester depends on the availability of Staff and is therefore subject to change.
3. Students may take extra courses to meet their degree programme requirements.

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## BACHELOR OF SCIENCE IN CONSERVATION BIOLOGY PROGRAMME

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### Introduction

The major focus of this programme is on conservation biology, management, and sustainable utilization of biodiversity and its regulation. Conservation biology aims at understanding ecosystems and maintaining their diversity. It also emphasizes the conservation of all biodiversity and the processes at all levels. The degradation of both the quantity and quality of Uganda's biological resources has consequently resulted in the poor ecosystem's health. The understanding of human interaction with biological resources and their effective conservation and management will form the basis for their survival and sustainable utilization in the long term.

### Goals and Objectives

The goal of the programme is to train personnel at a higher level who will have scientific and technical expertise for effective protection, maintenance and restoration of life on planet earth and Uganda in particular – the species, the ecological and evolutionary processes and the total environment.

### The specific objectives

1. To train a multidisciplinary and interdisciplinary-based cadre of Conservation Biologists to effect sustained utilization and conservation of biological resources and their habitats based on sound natural resources management policies.
2. To train people in the skills of scientific evaluation of habitats, biological resources, assessment, monitoring and impacts of resource use.
3. To train people in the skills of maintenance and restoration of ecosystems and integration of local communities into conservation of biological resources.
4. To give an opportunity to the lower cadres of staff engaged in natural resources conservation and management service to upgrade their knowledge and skills in the planning, monitoring and conservation of biological resources.
5. To enhance awareness and impart skills for more intensive *ex situ* conservation of biological resources.
6. To promote revenue generation through sustainable tourism, recreation, training, trade and employment in Uganda.

## Programme Structure

<b>Year I: Semester I (Core Courses)</b>		
Course Code	Course	CU
BCB 1101	Basic Taxonomy of Plants and Animals	4
BCB 1102	Environmental settings of East Africa	3
BCB 1103	Basic computer and Information technology skills	4
BCB 1104	Introduction to Physiology and Animal behaviour	3
BCB 1105	Introductory Economics for conservation	3
<b>Semester II</b>		
BCB 1201	Introductory Genetics for conservation	3
BCB 1202	Physiological Ecology	3
BOT 1202	Basic Ecology	3
<b>BCB 1204</b>	<b>Introduction to Parasitology and Microbiology</b>	4
BCB 1205	Soil Ecology	4
BCB 1206	Social Sciences for Conservation Biologists	4
<b>Recess Term</b>		
<b>BCB 1207</b>	<b>Practical skills in Conservation Biology</b>	3
<b>Year II: Semester I (Core Course)</b>		
BCB 2101	Renewable Natural Resources Ecology	3
BCB 2102	Land use planning	3
BCB 2103	Human-Environment interaction	3
BCB 2104	Introduction to Biochemistry and Cytogenetics	3
BCB 2105	Wildlife Habitats	3
<b>Electives (One To Be Selected)</b>		
BCB 2106	Herbarium and Botanical Garden Management	3
BCB 2107	Wild Animal Handling and Health Care	3
<b>Semester II Core Course</b>		
BCB 2201	Biodiversity Conservation	3
BCB 2202	Environment and Development Education	3
BOT 2203	Biostatistics	3

BCB 2203	Rangeland Ecology and Management	3
BCB 2204	Ecological & Environmental Techniques	4
<b>Electives (One To Be Selected)</b>		
BCB 2205	Advanced Computer Applications	3
BCB 2206	Management of Specimens and Captive Animal	3
BCB 2207	Internship	3
<b>Recess Term:</b>		
<b>BCB 2207</b>	<b>Internship</b>	3
<b>Year III: Semester I (Core Course)</b>		
BCB 3101	Protected Area Systems & Management	3
BCB 3102	Utilisation of Wild Flora and Fauna	3
BCB 3103	Environmental Planning, Research, Monitoring and Auditing	3
BCB 3104	Conservation Policy & Legislation	3
BCB 3105	Ethics and Conservation	3
<b>Electives (One to be Selected)</b>		
BCB 3106	Ecological Restoration	3
BCB 3107	Production Ecology and Bioenergetics	3
BCB 3108	Biometry	3
<b>Semester II Core Course</b>		
BCB 3201	Valuation of Resources and Bio-trade	3
BCB 3202	Gender and Community Conservation	3
BCB 3203	Research Project	4
BCB 3204	Biotechnology and Conservation	4
<b>Electives (One to be Selected)</b>		
BCB 3205	Captive Wildlife Management	4
BCB 3206	Tourism Development & Management	4
BCB 3207	Eco-Business & Accounting	4
BCB 3208	Risk Assessment & Risk Management	4