BSc. Zoology

Zoology is a branch of biology that deals with the study of mainly animals and animal like organisms. It embraces a wide range of topics but present emphasis is on aspects that are directly relevant to the economic development of Uganda. They include all invertebrate and vertebrate groups, Wildlife, Ecology, Fisheries and Aquatic Science, Entomology and Parasitology. Various other supportive disciplines are studied in the department. These include Cell biology and genetics, evolutionary biology, endocrinology and reproductive physiology, immunology and microbiology, animal behaviour, environmental science, data collection and analysis.

**BACHELOR OF SCIENCE IN ZOOLOGY (MAJOR AND MINOR)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CODE** | **COURSE TITLE** | **LH** | **PH** | **CH** | **CU** |
| **SEMESTER ONE** |
| ZOO 1101 | LOWER INVERTEBRATES | 30 | 30 | 45 | 3 |
| ZOO 1102 | HIGHER INVERTEBRATES | 30 | 30 | 45 | 3 |
| BOT 1103 | BASIC GENETICS | 30 | 30 | 45 | 3 |
| BCH 2102 | CELL BIOLOGY | 30 | 30 | 45 | 3 |
|   | SEMESTER TOTAL = | 90 | 90 | 135 | 12 |
| **SEMESTER TWO** |
| ZOO 1202 | SYSTEMATICS and DIVERSITY OF VERTEBRATES | 30 | 30 | 45 | 3 |
| BOT 1202 | BASIC ECOLOGY | 30 | 30 | 45 | 3 |
|   | SEMESTER TOTAL = | 60 | 60 | 90 | 6 |
| **SEMESTER THREE** |
| ZOO 2101 | STRUCTURE and FUNCTION OF VERTEBRATES | 30 | 60 | 60 | 4 |
| ZOO 2102 | INTRODUCTION TO ENTOMOLOGY | 30 | 30 | 45 | 3 |
| MAKBIT110 | INTRODUCTION TO COMPUTER and INFORMATION SCIENCE | 15 | 60 | 45 | 3 |
| ZOO 2103 | INTRODUCTION TO MOLECULAR BIOLOGY | 30 | 30 | 45 | 3 |
| ZOO 2104 | REPRODUCTION and DEVELOPMENTAL BIOLOGY | 30 | 30 | 45 | 3 |
|   | SEMESTER TOTAL = | 150 | 180 | 240 | 16 |
| **SEMESTER FOUR** |
| ZOO 2201 | EVOLUTIONARY BIOLOGY | 30 | 30 | 45 | 3 |
| ZOO 2202 | INTRODUCTION TO PARASITOLOGY | 30 | 30 | 45 | 3 |
| BOT 2203 | BIOSTATISTICS | 30 | 30 | 45 | 3 |
| ZOO 2207 | GEOGRAPHIC INFORMATION SYSTEMS (GIS) and REMOTE SENSING | 15 | 60 | 45 | 3 |
|   | Total (core) = | 105 | 150 | 180 | 12 |
| ELECTIVES |
| BOT 2201 | BASIC BACTERIOLOGY and VIROLOGY (elective) | 30 | 30 | 45 | 3 |
| ZOO 2206 | PROJECT PLANNING and MANAGEMENT (elective) | 15 | 60 | 45 | 3 |
|   | SEMESTER TOTAL = | 105+ | 150+ | 225+ | 15+ |
| **SEMESTER FIVE** |
| ZOO 3101 | RESEARCH METHODS, COMMUNICATION SKILLS and RESEARCH PROJECT | 30 | 90 | 75 | 5 |
| ZOO 3102 | HYDROBIOLOGY | 45 | 30 | 60 | 4 |
| ZOO 3103 | ANIMAL HISTOLOGY | 30 | 30 | 45 | 3 |
|   | Total (core) = | 105 | 120 | 180 | 12 |
| **ELECTIVES** |
| ZOO 3104 | BIOLOGICAL ANTHROPOLOGY (elective) | 30 | 0 | 30 | 2 |
| ZOO 3105 | COMMERCIAL ENTOMOLOGY (elective) | 30 | 30 | 45 | 3 |
| BFA 3108 | ENVIRONMENTAL PROTECTION and IMPACT ASSESSMENT (elective) | 30 | 30 | 45 | 3 |
|   | SEMESTER TOTAL = | 135+ | 120+ | 210+ | 14+ |
| **SEMESTER SIX** |
| ZOO 3201 | ANIMAL BEHAVIOUR | 30 | 30 | 45 | 3 |
| ZOO 3208 | COMPARATIVE ANIMAL PHYSIOLOGY | 30 | 30 | 45 | 3 |
|   | Total (core) = | 60 | 60 | 90 | 6 |
| **ELECTIVES** |
| ZOO 3204 | APPLIED PARASITOLOGY (elective) | 30 | 30 | 45 | 3 |
| ZOO 3205 | FISH BIOLOGY and AQUACULTURE (elective) | 30 | 30 | 45 | 3 |
| ZOO 3206 | INTEGRATED PEST and VECTOR MANAGEMENT (elective) | 30 | 30 | 45 | 3 |
| ZOO 3207 | WILDLIFE ECOLOGY and CONSERVATION (elective) | 30 | 30 | 45 | 3 |
|   | SEMESTER TOTAL = | 120+ | 120+ | 180+ | 9+ |
| **RECESS TERM** |
| ZOO 3301 | FIELD ATTACHMENT | 45 | 30 | 60 | 4 |

BSc ZOOLOGY (minor)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CODE** | **COURSE TITLE** | **LH** | **PH** | **CH** | **CU** |
| **SEMESTER ONE** |
| ZOO 1101 | LOWER INVERTEBRATES | 30 | 30 | 45 | 3 |
| ZOO 1102 | HIGHER INVERTEBRATES | 30 | 30 | 45 | 3 |
|   | SEMESTER TOTAL = | 60 | 60 | 90 | 6 |
| **SEMESTER TWO** |
| ZOO 1202 | SYSTEMATICS and DIVERSITY OF VERTEBRATES | 30 | 30 | 45 | 3 |
|   | SEMESTER TOTAL = | 30 | 30 | 45 | 3 |
| **SEMESTER THREE** |
| ZOO 2104 | REPRODUCTION and DEVELOPMENTAL BIOLOGY | 30 | 30 | 45 | 3 |
| ZOO 2101 | STRUCTURE and FUNCTION OF VERTEBRATES | 30 | 60 | 60 | 4 |
| ZOO 2102 | INTRODUCTION TO ENTOMOLOGY | 30 | 30 | 45 | 3 |
|   | SEMESTER TOTAL = | 90 | 120 | 150 | 10 |
| **SEMESTER FOUR** |
| ZOO 2202 | INTRODUCTION TO PARASITOLOGY | 30 | 30 | 45 | 3 |
|   | SEMESTER TOTAL = | 30 | 30 | 45 | 3 |
| SEMESTER FIVE |
| ZOO 3102 | HYDROBIOLOGY | 45 | 30 | 60 | 4 |
| ZOO 3104 | BIOLOGICAL ANTHROPOLOGY (elective) | 30 | 0 | 30 | 2 |
| ZOO 3105 | COMMERCIAL ENTOMOLOGY (elective) | 30 | 30 | 45 | 3 |
|   | SEMESTER TOTAL = | 45+ | 30+ | 60+ | 4+ |
| **SEMESTER SIX** |
| ZOO 3204 | APPLIED PARASITOLOGY (elective) | 30 | 30 | 45 | 3 |
| ZOO 3205 | FISH BIOLOGY and AQUACULTURE (elective) | 30 | 30 | 45 | 3 |
| ZOO 3206 | INTEGRATED PEST and VECTOR MANAGEMENT (elective) | 30 | 30 | 45 | 3 |
| ZOO 3207 | WILDLIFE ECOLOGY and CONSERVATION (elective) | 30 | 30 | 45 | 3 |
|   | SEMESTER TOTAL = | 30+ | 30+ | 45+ | 3+ |