

DEPARTMENT OF BIOLOGY

| 100 LEVEL 1 ST SEMESTER | | | | | | |
|------------------------------------|--------------|-----------------------------------|----------|----------|----------|-----------|
| COURSE CODE | | COURSE TITLE | L | T | P | Units |
| BIO 101 | C | General Biology I | 2 | 1 | 3 | 4 |
| CHE 101 | C | General Chemistry I | 2 | 1 | 3 | 4 |
| MTS 101 | C | Introductory Mathematics I | 2 | 1 | - | 3 |
| PHY 101 | C | General Physics I | 2 | 1 | - | 3 |
| GNS 101 | R | Use of English I | 1 | 1 | - | 2 |
| PHY 103 | C | General Physics III | 1 | 1 | - | 2 |
| PHY 107 | C | General Physics Laboratory I | - | - | 3 | 1 |
| MEE 101 | R | Engineering Drawing I | 1 | - | 6 | 3 |
| GNS 103 | R | Information Retrieval | 1 | 0 | 0 | 1 |
| | Total | | | | | 23 |

| 100 LEVEL 2 ND SEMESTER | | | | | | |
|------------------------------------|--------------|------------------------------------|----------|----------|----------|-----------|
| COURSE CODE | | COURSE TITLE | L | T | P | Units |
| BIO 102 | C | General Biology II | 2 | 1 | 3 | 4 |
| CHE 102 | C | General Chemistry II | 2 | 1 | 3 | 4 |
| MTS 102 | C | Introductory Mathematics II | 2 | 1 | 0 | 3 |
| MEE 102 | R | Workshop Practice | 0 | 0 | 6 | 2 |
| GNS 102 | R | Use of English II | 1 | 1 | 0 | 2 |
| GNS 106 | R | Logic and Philosophy | 1 | 1 | 0 | 2 |
| PHY 102 | C | General Physics II | 2 | 1 | 0 | 3 |
| PHY 108 | C | General Physics (Laboratory) II | 0 | 0 | 3 | 1 |
| | Total | | | | | 21 |

| 200 LEVEL 1 ST SEMESTER | | | | | | |
|------------------------------------|--------------|--|----------|----------|----------|-----------|
| COURSE CODE | | COURSE TITLE | L | T | P | Units |
| BIO 201 | C | Introductory Genetics | 2 | 1 | 3 | 4 |
| BIO 203 | C | General Physiology | 2 | 0 | 0 | 2 |
| BIO 205 | C | Introductory Developmental Cell Biology | 2 | 0 | 3 | 3 |
| BIO 209 | C | Advanced Lower Invertebrates | 2 | 0 | 3 | 3 |
| BIO 211 | C | Seedless Plants | 2 | 0 | 3 | 3 |
| CSP 201 | R | General Agriculture (Theory) | 1 | 0 | 0 | 1 |
| GNS 201 | R | Man and His Environment | 1 | 1 | 0 | 2 |
| CHE 203 | C | Organic Chemistry I | 1 | 0 | 3 | 2 |
| | Total | | | | | 20 |

| <i>Audited Courses for D.E students</i> | | | | | | |
|---|----------|------------------------------|----------|----------|----------|----------|
| COURSE CODE | | COURSE TITLE | L | T | P | Units |
| GNS 101 | R | Use of English I | 1 | 1 | 0 | 2 |
| GNS 103 | R | Information Retrieval | 1 | 0 | 0 | 1 |
| MEE 101 | R | Engineering Drawing I | 1 | 0 | 6 | 3 |

| 200 LEVEL 2ND SEMESTER | | | | | | |
|--|----------|---|----------|----------|----------|--------------|
| COURSE CODE | | COURSE TITLE | L | T | P | Units |
| BIO 202 | C | Introductory Ecology and Evolution | 2 | 0 | 0 | 2 |
| BIO 204 | C | Biological Techniques | 2 | 0 | 3 | 3 |
| BIO 206 | C | Plant Physiology | 1 | 0 | 3 | 2 |
| BIO 208 | C | Cell Biology and Histology | 1 | 0 | 3 | 2 |
| PMT 210 | R | Principles of Economics | 2 | 1 | 0 | 3 |
| MTS 224 | C | Statistics for Biological Sciences | 2 | 1 | 3 | 4 |
| CSC 102 | C | Introduction to Computing | 2 | 0 | 3 | 3 |
| CSP 210 | R | General Agriculture (Practical) | 0 | 0 | 6 | 2 |
| | Total | | | | | 21 |

| University Required Courses for Direct Entry Students | | | | | | |
|--|----------|-----------------------------|----------|----------|----------|----------|
| MEE 102 | R | Workshop practice | 0 | - | 6 | 2 |
| GNS 102 | R | Use of English II | 1 | 1 | - | 2 |
| GNS 106 | R | Logic and Philosophy | 1 | 1 | - | 2 |

| 300 LEVEL 1ST SEMESTER | | | | | | |
|--|---|----------------------------------|----------|----------|----------|--------------|
| COURSE CODE | | COURSE TITLE | L | T | P | Units |
| BIO 301 | C | Insect Taxonomy | 1 | - | 3 | 2 |
| BIO 303 | C | General Biology | 2 | - | 3 | 3 |
| BIO 305 | C | Molecular Genetics | 2 | - | 3 | 3 |
| BCH 201 | C | General Biochemistry I | 2 | - | 3 | 3 |
| MCB 201 | C | General Microbiology I | 2 | - | 3 | 3 |
| BIO 315 | C | Field Course | 0 | - | 3 | 1 |
| BIO 319 | C | General Ecology | 2 | - | 3 | 3 |
| BIO 327 | C | General Parasitology | 2 | - | - | 2 |
| EMT 301 | C | Introduction to Entrepreneurship | 2 | 0 | 0 | 2 |
| | | Total | | | | 22 |
| Electives | | | | | | |
| BIO 321 | E | Ceolomate Invertebrates | 1 | 0 | 3 | 2 |

| 300 LEVEL 2ND SEMESTER | | | | | | |
|--|----------|--|----------|----------|----------|--------------|
| COURSE CODE | | COURSE TITLE | L | T | P | Units |
| BIO 302 | C | Seed Plants | 1 | 0 | 3 | 2 |
| BIO 304 | C | Leather and Wood Preservation | 2 | - | 3 | 3 |
| BIO 306 | C | Animal Physiology | 2 | - | 3 | 3 |
| BIO 310 | C | Insect Morphology & Physiology | 2 | - | 3 | 3 |
| BIO 312 | C | Biology of Parasitic Protozoans & Helminths | 1 | - | 3 | 2 |
| BIO 316 | C | Storage Microbiology | 2 | - | 3 | 3 |
| BCH 202 | C | General Biochemistry II | 2 | - | 3 | 3 |
| EMT 302 | | Practical Skills in Entrepreneurship | 0 | 0 | 9 | 3 |
| | | Total | | | | 22 |
| Electives | | | | | | |
| CHE 202 | E | Analytical Chemistry I | 1 | 0 | 3 | 2 |

| 400 LEVEL 1ST SEMESTER | | | | | | |
|------------------------|----------|---|----------|----------|----------|----------|
| COURSE CODE | | COURSE TITLE | L | T | P | Units |
| BIO 401 | C | Population Genetics | 2 | 0 | 3 | 3 |
| BIO 403 | C | Cytogenetics | 2 | 0 | 3 | 3 |
| BIO 405 | C | Microbiological Methods in Storage Practice | 0 | - | 3 | 1 |
| BIO 411 | C | Storage Equipment Technology | 1 | - | 3 | 2 |
| BIO 413 | C | Biology of Pests of Stored Products and their Control | 2 | - | 3 | 3 |
| BIO 415 | C | Storage Techniques | 2 | - | 3 | 3 |
| BIO 417 | C | Food Preservation and Packaging | 1 | - | 3 | 2 |
| BIO 427 | C | Warehouse and Store Management | 2 | 0 | 3 | 3 |
| | | Total | | | | 20 |
| Electives | | | | | | |
| MCB 401 | E | Industrial Microbiology | 3 | 0 | 3 | 4 |
| CHE 419 | E | Food Chemistry | 1 | - | 3 | 2 |

| 400 LEVEL 2 ND SEMESTER LONG VACATION (SIWES) | | | | | | |
|--|---|--|---|---|---|-----------|
| COURSE CODE | | COURSE TITLE | L | T | P | Units |
| BIO 402 | C | Industrial Training Assessed by Industrial based Supervisors | 0 | 0 | 0 | 4 |
| BIO 404 | C | Industrial Training Assessed by FUTA Supervisors | 0 | 0 | 0 | 4 |
| BIO 406 | C | Student's Report and Seminar presentation | 0 | 0 | 0 | <u>4</u> |
| | | Total | | | | <u>12</u> |

| 500 LEVEL 1 ST SEMESTER | | | | | | |
|------------------------------------|----------|-------------------------------------|----------|----------|----------|-----------|
| COURSE CODE | | COURSE TITLE | L | T | P | Units |
| BIO 501 | C | Bio-illustration | 1 | - | 3 | 2 |
| BIO 503 | C | Biostatistics | 2 | - | - | 2 |
| BIO 505 | C | Applied Entomology | 2 | - | 3 | 3 |
| BIO 507 | C | Vector and Pest Management I | 2 | - | 3 | 3 |
| BIO 509 | C | Applied Parasitology | 2 | - | 3 | 3 |
| BIO 511 | C | Soil Ecology | 2 | - | 3 | 3 |
| BIO 599 | C | Final Year Student's Project | 0 | - | 18 | 6 |
| | | Elective | | | | 3 |
| | | Total | | | | 25 |
| Electives | | | | | | |
| BIO 525 | E | Development Biology | 2 | - | 3 | 3 |
| BIO 527 | E | Hydrobiology | 2 | - | 3 | 3 |

| 500 LEVEL 2 ND SEMESTER | | | | | | |
|------------------------------------|----------|--------------------------------------|----------|----------|----------|--------------|
| COURSE CODE | | COURSE TITLE | L | T | P | Units |
| BIO 502 | C | Applied Storage Techniques | 2 | 0 | 3 | 3 |
| BIO 506 | C | Quality Control in Storage Practice | 2 | 0 | 3 | 3 |
| BIO 508 | C | Vector and Pest Management II | 2 | 0 | 3 | 3 |
| BIO 510 | C | Seminars | 0 | 0 | 6 | 2 |
| BIO 512 | C | Storage Mycology | 1 | 0 | 3 | 2 |
| BIO 514 | C | Systematic Biology | 2 | 0 | 3 | 3 |
| | | Elective | | | | 2/3 |
| | | Total | | | | 18/19 |
| Electives | | | | | | |

| | | | | | | |
|---------|---|-----------------|---|---|---|---|
| MCB 502 | E | Food Processing | 2 | 0 | 3 | 3 |
| CHE 506 | E | Food Analysis | 1 | 0 | 3 | 2 |