

**Bachelor of Science Degree |** Entomology Emphasis

*Sample Plan of Study for 2023-2024*

* Plan of studies will vary for each student depending on start year, individual goals, applicable transfer credit, and course availability.
* Declaring an Emphasis- Students should formally declare an emphasis area with the Office of

Registration & Records no later than the beginning of their junior year. The emphasis area is recorded on the academic transcript with the degree.

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|  | ***First Year*** | |  |
| **Fall** | Credits | **Spring** | Credits |
| BIOL 150 – *General Biology l* | 3 | BIOL 151 – *General Biology ll* | 3 |
| BIOL 150L – *General Biology l Lab.* | 1 | BIOL 151L – *General Biology ll Lab.* | 1 |
| ENGL 110 - *College Comp. l* | 4 | ENGL 120 – *College Comp. ll* | 3 |
| NRM 150 – *NRM Orientation* | 1 | Hum. & Fine Arts Elective | 3 |
| NRM 225 (G) – *Natural Resources & Agrosystems* | 3 | Math 103 – *College Algebra* | 3 |
| RNG 136 – *Intro to Range Management* | 3 | Wellness Elective | 2 |
|  | Total 15 |  | Total 15 |
|  | ***Second Year*** | |  |
| CHEM 121 – *General Chemistry l* | 3 | EMGT, POLS, or SOC elective | 3 |
| CHEM 121L – *General Chemistry l Lab* | 1 | ENT 210 – *Insects, Humans & Environment* | 3 |
| COMM 110 – *Fund. of Public Speaking* | 3 | STATS 330 - *Intro. Statistics* | 3 |
| ECON 201(G) (SBS) - *Principles of Micro.* | 3 | Emphasis Core or Elective Credits | 6 |
| SOIL 210 – *Intro. to Soil Science* | 3 |  |  |
| RNG 213 - *Rangeland Sampling Techniq.* | 3 |  |  |
|  | Total 16 |  | Total 15 |
|  | ***Third Year*** | |  |
| ENGL 321, 324, or 459 | 3 | NRM 421 – *Env. Outreach Methods* | 3 |
| PHIL 215(D) or 225 (H&FA) – *Env. Ethics* | 3 | RNG 452 or GEOG 455 - *GIS* | 3 |
| Emphasis Core or Elective Credits | 9 | Emphasis Core or Elective Credits | 9 |
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|  |  |  |  |
|  | Total 15 |  | Total 15 |
|  | ***Fourth Year*** | |  |
| Emphasis Core or Elective Credits | 14 | NRM/RNG/SOIL 462 – *Natural Resource and Rangeland Planning* | 3 |
|  |  | Emphasis Core or Elective Credits | 12 |
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|  | Total 14 |  | Total 15 |

**Total credits to graduate: 120**

Gen Ed requirements for Category D (Cultural Diversity) and G (Global Perspectives) can be fulfilled by taking approved courses that also qualify for other Gen Ed or curriculum requirements.

**Entomology Emphasis**

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|  | **Required Courses for Entomology Emphasis** |  |
| BIOL 364 | General Ecology | 3 |
| BIOL 450 | Invertebrate Zoology | 3 |
| BIOL 475 | Conservation Biology | 3 |
| ENT 350 | General Entomology | 3 |
| ENT 431 | Principles of Insect Pest Management | 3 |
| ENT 470 | Insect Ecology | 3 |
| PLSC 110 | World Food Crops | 3 |
| RNG 450 or  RNG 460 or  PLSC 380 | Range Plants  Plant Ecology  Principles of Plant Physiology | 3 |

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|  | **Select a minimum of 6 credits of approved electives from below** | | | |  |
| PLSC 210 | Horticulture Science | 3 | PLSC 412 | Nursery Production and Management | 3 |
| PLSC 219 | Introduction to Prairie & Community Forestry | 2 | PLSC 415 Vegetable Crop Production | | 2 |
| PLSC 315 | Genetics | 3 | PLSC 416 | Fruit Crop Production | 2 |
| PLSC 323 | Principles of Weed Science | 3 | PLSC 422 Greenhouse Production and  Management | | 3 |
| PLSC 350 | Sugarbeet Production | 2 | PLSC 425 | Potato Science | 2 |
| PLSC 355 | Woody Landscape Plants | 3 | PLSC 431 Intermediate Genetics | | 3 |
| PLSC 365 | Herbaceous Landscape Plants | 2 | PLSC 433 | Weed Biology and Ecology | 2 |
| PLSC 370 | Landscape Management | 3 | PLSC 455 Cropping Systems: An Integrated  Approach | | 3 |
| PLSC 375 | Turfgrass Management | 3 | SOIL 351 | Soil Ecology | 3 |

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|  | **Select a minimum of 15 credits from the approved electives listed below** | | | |  |
| BIOL 359 | Evolution | 3 | NRM 453 | Rangeland Resources Watershed Management | 3 |
| BIOL 461 | Plant Ecology | 3 | NRM 454 Wetland Resources Management | | 4 |
| BIOL 463 | Animal Behavior | 3 | PLSC 315 | Genetics | 3 |
| BIOL 476 | Wildlife Ecology and  Management | 3 | PPTH 324 | Introductory Plant Pathology | 3 |
| MICR 202 | Introductory Microbiology | 2 | PPTH 454 | Diseases Of Field and Forage Crops | 3 |
| MICR 452 | Microbial Ecology | 3 | PPTH 455 | Plant Disease Management | 3 |
| MICR 463 | Clinical Parasitology | 2 | PPTH 457 | Landscape Plant Pathology | 3 |
| NRM 401 | Urban-Ecosystem Management | 3 | PPTH 460 | Fungal Biology | 3 |
| NRM 402 | River and Stream Resource Management | 3 | RNG 450 | Range Plants | 3 |
| NRM 420 | Sustainable Scenarios in Natural Resources Management | 3 | SOIL 410 | Soils and Land Use | 3 |
| NRM 431 | National Env. Policy Act & Env. Impact Assessment | 3 |  |  |  |