



**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  |
|   |   |   |   |
|   |   |   |   |
|   | 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  |
|   |   |   |   |
|   |   |   |   |
|   | 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  |   |  |   |