

**Bachelor of Science Degree |** Water, Habitat, and Environmental Management 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 | STATS 330 - *Intro. Statistics* | 3 |
| COMM 110 – *Fund. of Public Speaking* | 3 | Emphasis Core or Elective Credits | 6 |
| ECON 201(G) (SBS) - *Principles of Micro.* | 3 | ENT 210 – *Insects, Humans & Environment* | 3 |
| 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.

**Water, Habitat, and Environmental Management Emphasis**

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| **Required Courses for Water, Habitat, and Environmental Management Emphasis** | |  |
| BIOL 364 | General Ecology | 3 |
| BIOL 475 or 476 Conservation Biology or  Wildlife Ecology and Management | | 3 |
| ECON 481 | Natural Resource Economics | 3 |
| NRM 264 | Natural Resource Management Systems | 3 |
| NRM 402, 454, or River and Stream Resource Management, Wetland Resources Management, SOIL 410 or Soils and Land Use | | 3 |
| NRM 431 | National Environmental Policy Act and Environmental Impact Assessment | 3 |
| NRM 453 Rangeland Resources Watershed Management | | 3 |

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|  | **Select a minimum of 26 credits from the approved electives below:** | |  |
| BIOL 359 | Evolution | | 3 |
| BIOL 414 | Plant Systematics | | 3 |
| BIOL 450 | Invertebrate Zoology | | 3 |
| BIOL 452 | Ichthyology | | 3 |
| BIOL 454 | Herpetology | | 3 |
| BIOL 456 | Ornithology | | 3 |
| BIOL 458 | Mammalogy | | 3 |
| BIOL 460 | Animal Physiology | | 3 |
| BIOL461 | Plant Ecology | | 3 |
| BIOL 462 | Physiological Ecology | | 3 |
| BIOL 463 | Animal Behavior | | 3 |
| BIOL 472 | Structure and Diversity of Plants and Fungi | | 3 |
| BIOL 477 | Wildlife and Fisheries Management Techniques | | 3 |
| BIOL 480 | Ecotoxicology | | 3 |
| BIOL 481 | Wetland Science | | 3 |
| ENT 350 | General Entomology | | 3 |
| MICR 202 and  202L | Introductory Microbiology and Introductory Microbiology Lab | | 3 |
| NRM 401 | | Urban-Ecosystems management | 3 |
| NRM 420 | | Sustainable Scenarios in Natural Resources Management | 3 |
| PLSC 219 | | Introduction to Prairie & Community Forestry | 2 |
| PLSC 315 | | Genetics | 3 |
| PLSC 315L | | Genetics Lab | 1 |
| PLSC 323 | | Principles of Weed Science | 3 |
| PLSC 355 | | Woody Landscape Plants | 2 |
| RNG 450 | | Range Plants | 3 |
| RNG 451 | | Ecology of Fire-Dependent Ecosystems | 3 |
| RNG 456 | | Range Habitat Management | 3 |
| RNG 458 | | Grazing Ecology | 3 |
| SOIL 217 | | Introduction to Meteorology & Climatology | 3 |
| SOIL 351 | | Soil Ecology | 3 |
| SOIL 410 | | Soils and Land Use | 3 |
| SOIL 433 | | Soil Ecohydrology and Physics | 3 |
| SOIL 444 | | Soil Genesis and Survey | 3 |