

**Bachelor of Science Degree |** Rangeland Ecology 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 |
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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.

# Rangeland Ecology Emphasis

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|  | **Requirements for Rangeland Ecology Emphasis** |  |
| ANSC 114 | Introduction to Animal Sciences | 3 |
| BIOL 364 | General Ecology | 3 |
| BIOL 452 or  BIOL 454 or  BIOL 456 or  BIOL 458 or | Ichthyology  Herpetology  Ornithology  Mammalogy | 3 |
| BIOL 461 | Plant Ecology | 3 |
| BIOL 475 or BIOL 476 | Conservation Biology  Wildlife Ecology and Management | 3 |
| NRM 431 | National Environmental Policy Act & Environmental Impact Assessment | 3 |
| NRM 453 or NRM 454 | Rangeland Resources Watershed Management Wetland Resources Management | 3 |
| PLSC 380 | Principles of Plant Physiology | 3 |
| 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 or  SOIL 410 or  SOIL 444 | Soil Ecology  Soils and Land Use  Soil Genesis and Survey | 3 |

Select a minimum of 9 additional credits of 300 or 400 level courses from ENT, SOIL, RNG, or NRM

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*Notes*

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