

**Bachelor of Science Degree |** Soil Science 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.

# Soil Science Emphasis

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|  | **Required Courses for Soil Science Emphasis** |  |
| CHEM 240  BIOC 260 or  MICRO 202 & 202L | Survey of Organic Chemistry  Elements of Biochemistry (4)  Introductory Microbiology and Introductory Microbiology Lab | 3 |
| GEOL 105 & 105L | Physical Geology and Physical Geology Lab | 4 |
| MATH 105 | Trigonometry | 3 |
| PHYS 211 & 211L | College Physics I and College Physics I Laboratory | 4 |
| PLSC 110 | World Food Crops | 3 |
| PLSC 225 | Principles of Crop Production (or 300/400 level Range Sciences Course) | 3 |
| PLSC 380 | Principles of Plant Physiology | 3 |
| SOIL 217 | Introduction to Meteorology & Climatology | 3 |
| SOIL 322 | Soil Fertility and Fertilizers | 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 |
| SOIL/NRM 454 | Wetland Resources Management | 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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