



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