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Environmental Science, B.S., Soil and Water Concentration



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Degree Awarded: Bachelor of Science

Total Credit Hours: 120

Career Opportunities: **Soil & Water** – Soil and water conservationist, wetland soils, managing soil and water resources, sustainable energy and water practices.

General Education Core Curriculum

Core Curriculum

Freshman Year

Required Courses

- UNIV 100 – First Year Seminar **3 Credit(s)**
- BIOL 110 – Fundamentals of Biology I **3 Credit(s)**
- BIOL 111 – Fundamentals of Biology II **3 Credit(s)**
- BIOL 112 – Fundamentals of Biology I Lab **1 Credit(s)**
- BIOL 113 – Fundamentals of Biology II Lab **1 Credit(s)**
- CHEM 107 – General Chemistry I **3 Credit(s)**
- CHEM 115 – General Chemistry Laboratory **2 Credit(s)**
- ENGL 101 – Introduction to Academic Writing **3 Credit(s)**
- ENGL 102 – Writing and Research About Culture **3 Credit(s)**
- ENVS 100 – Environmental Science **3 Credit(s)**
- ENVS 150 – Plant Science **3 Credit(s)**
- ENVS 151 – Plant Science Laboratory **1 Credit(s)**
- MATH 143 – Pre-Calculus Algebra and Trigonometry **3 Credit(s)**

* Eligibility for MATH 143 based on ACT score. Students who are not eligible need to take both MATH 109 and MATH 110 as substitution courses.

Total: 32 Credits

Sophomore Year

Required Courses

- CHEM 108 – General Chemistry II **3 Credit(s)**
- CMCN 100 – Principles of Human Communication **3 Credit(s)**
- ECON 300 – Fundamentals of Economics **3 Credit(s)**
- ENVS 285 – Soil Science **4 Credit(s)**
- ENVS 310 – Environmental Field Techniques **3 Credit(s)**
- MATH 250 – Survey of Calculus **3 Credit(s)**
- PHYS 207 – Introduction to Physics I **3 Credit(s)**
- PHYS 215 – Physics Laboratory I **1 Credit(s)**

Electives

History (3 credits)

Choose from the General Education Core list of History courses.

English Literature (3 credits)

Choose from the General Education Core list of Literature courses.

Fine Arts (3 credits)

Choose from the General Education Core list of Fine Arts courses.

Total: 32 Credits

Junior Year

Required Courses

- ENVS 390 – Soil and Water Conservation **3 Credit(s)**
- ENVS 455G – Geographic Information Science I **3 Credit(s)**
- ENVS 464G – Geographic Information Science II **3 Credit(s)**
- ENVS 484 – Watershed Science **3 Credit(s)**
- GEOL 460G – Site Assessment and Remediation **3 Credit(s)**
- PHYS 208 – Introduction to Physics II **3 Credit(s)**
- PHYS 216 – Physics Laboratory II **1 Credit(s)**

Concentration Area (10 credits)

- ENVS 357 – Wetland Soils **3 Credit(s)**
- ENVS 490G – Environmental Pedology **3 Credit(s)**
- ENVS 493G – Soil-Plant Relationships **3 Credit(s)**
- ENVS 495G – Soil Genesis and Survey **3 Credit(s)**
- CHEM 221 – Analytical Chemistry **3 Credit(s)**
- GEOL 433G – Clay Mineralogy **3 Credit(s)**
- GEOL 450G – Landscape Evolution **3 Credit(s)**

Total: 29 Credits

Senior Year

Required Courses

- GEOG 350 – Louisiana **3 Credit(s)**
- ENVS 486G – Water Quality **4 Credit(s)**
- ENVS 472 – Internship **3 Credit(s)**
- GEOL 355 – Environmental Geology **3 Credit(s)**

- STAT 214 – Elementary Statistics **3 Credit(s)**
or
- STAT 427G – Statistical Methods for Researchers I **3 Credit(s)**

Concentration Area (11 credits)

- ENVS 357 – Wetland Soils **3 Credit(s)**
- ENVS 490G – Environmental Pedology **3 Credit(s)**
- ENVS 493G – Soil-Plant Relationships **3 Credit(s)**
- ENVS 495G – Soil Genesis and Survey **3 Credit(s)**

- CHEM 221 - Analytical Chemistry **3 Credit(s)**
- GEOL 433G - Clay Mineralogy **3 Credit(s)**
- GEOL 450G - Landscape Evolution **3 Credit(s)**

Total: 27 Credits

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