

## Environmental Engineering Career Pathway

The career pathway in environmental engineering is designed for undergraduates interested in understanding and developing sustainable approaches to waste treatment systems and environmental resource management systems. Students participating in this concentration will be prepared for entry level opportunities in the environmental consulting firms and regulatory positions and graduate level studies in environmental engineering. Electives should be chosen in consideration of the student's particular interests. Students are advised to check prerequisites of listed courses. Students may also earning a minor in Environmental Science but the minor will require additional credits.

| GENERAL PRE-APPROVED COURSES (Take all 6 credits)           | CREDIT HOURS |
|---|--------------|
| ENGR 472. Biological Treatment Processes and Reactor Design | 3            |
| ENGR 474. Physical and Chemical Treatment Processes         | 3            |

  

| PATH-SPECIFIC PRE-APPROVED ELECTIVE COURSES<br>(Choose 3 or more credits) | CREDIT HOURS |
|---|--------------|
| ENGR 360. WATER (Short term study abroad)                                 | 4            |
| GEOG 327. Climatology   | 3            |
| GEOL 320. Meteorology   | 3            |
| GEOL 340. Soils and Land Use  | 3            |
| GEOL 355. Geochemistry of Natural Waters                                  | 3            |
| GEOL 410. Engineering Geology   | 3            |
| GEOL 460. Hydrogeology  | 3            |
| ISAT 410. Sustainable Energy Development                                  | 3            |
| ISAT 416. International Energy Studies (Short term study abroad)          | 3            |
| ISAT 420. Environmental Analysis and Modeling                             | 3            |
| ISAT 422. Industrial Environmental Management                             | 3            |
| ISAT 425. Environmental Hydrology   | 3            |
| ISAT 426. Environmental Information Systems                               | 3            |
| ISAT 471. Transportation: Energy, Environment and Society                 | 3            |
| ISAT 472. Transportation: Air Quality Modeling and Regulation             | 3            |
| ISAT 480. Sustainable Societies (Short term study abroad)                 | 3            |
| MATH 318. Introduction to Probability and Statistics                      | 3            |
| MATH 321. Analysis of Variance and Experimental Design                    | 3            |

NOTE: Some courses may have pre- or co- requisites that are not included in the credit total. It is the student's responsibility to fulfill any pre- or co- requisites required.

For more information:

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