

# Environmental Science



**Stream Resources Theme** Understanding the physical nature of streams and stream corridors is critical for protecting stream resources as population increases and climate change challenges occur. Resource managers will evaluate the effects of landuse along stream corridors and implement stream restoration. Career opportunities in physical stream processes and systems involve stream and watershed surveys and stream geomorphic assessments, habitat design and improvement, and bank stabilization and waterway design.

|                                       | BA                                                                                                                                                                                                                                                                                                                                                                              | BS                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Required<br>(3 courses, 12 cr)        | <input type="checkbox"/> ESCI 101 (5) Intro Env Sci<br><input type="checkbox"/> ESCI 250 (5) Env Res Methods<br><input type="checkbox"/> ESCI 494 (2) Senior Sem (W) 12                                                                                                                                                                                                         | <input type="checkbox"/> ESCI 101 (5) Intro Env Sci<br><input type="checkbox"/> ESCI 250 (5) Env Res Methods<br><input type="checkbox"/> ESCI 494 (2) Senior Sem (W) 12                                                                                                                                                                                                         |
| Social Sciences<br>(1 course or 4 cr) | <i>One Course From</i><br><input type="checkbox"/> ECON 350 (4) Env Nat Res Econ<br><input type="checkbox"/> GEOG 292S (4) Pop Geog<br><input type="checkbox"/> GEOG 230S (4) Urban Geog<br><input type="checkbox"/> POLI 221S (4) State Local Gov<br><input type="checkbox"/> POLI 321 (4) Public Policy 4                                                                     | <i>Two Courses From</i><br><input type="checkbox"/> ECON 350 (4) Env Nat Res Econ<br><input type="checkbox"/> GEOG 292S (4) Pop Geog<br><input type="checkbox"/> GEOG 230S (4) Urban Geog<br><input type="checkbox"/> POLI 221S (4) State Local Gov<br><input type="checkbox"/> POLI 321 (4) Public Policy 8                                                                    |
| Math or Comp Sci                      | <input type="checkbox"/> Statistics from MATH 127Q (4), BUSI 110Q, MATH 227 (4), or PSYC 107Q (4) 4                                                                                                                                                                                                                                                                             | <input type="checkbox"/> Statistics from MATH 127Q (4), BUSI 110Q, MATH 227 (4), or PSYC 107Q (4)<br><input type="checkbox"/> MATH 131Q (4) Essen Calc <i>OR</i> MATH 201Q (4) Calc I and Math 202Q (4) Calc II <i>OR</i> COMP 150 (5) Programming 8-9                                                                                                                          |
| Foundational Courses                  | <input type="checkbox"/> GEOG 222B (5) Weather and Climate<br><input type="checkbox"/> GEOG 306 (4) Remote Sensing <i>AND</i> GEOL 291 (2) Sp Data Anal <i>OR</i> Geog 390 (5) GIS<br><input type="checkbox"/> GEOL 150B (5) Phys Geol <i>OR</i> GEOL 160B (5) Environ Geol <i>OR</i> GEOL 170B (5) Critical Zone<br><input type="checkbox"/> PHYS 200 (5) Mech and Waves 25-26 | <input type="checkbox"/> GEOG 222B (5) Weather and Climate<br><input type="checkbox"/> GEOG 306 (4) Remote Sensing <i>AND</i> GEOL 291 (2) Sp Data Anal <i>OR</i> Geog 390 (5) GIS<br><input type="checkbox"/> GEOL 150B (5) Phys Geol <i>OR</i> GEOL 160B (5) Environ Geol <i>OR</i> GEOL 170B (5) Critical Zone<br><input type="checkbox"/> PHYS 200 (5) Mech and Waves 25-26 |
| Advanced Courses                      | <input type="checkbox"/> GEOL 240 (5) Process Geomorph<br><input type="checkbox"/> GEOL 315 (4) Watershed Hydr<br><input type="checkbox"/> GEOL 350 (5) Env Geochem 14                                                                                                                                                                                                          | <input type="checkbox"/> GEOL 240 (5) Process Geomorph<br><input type="checkbox"/> GEOL 315 (4) Watershed Hydr<br><input type="checkbox"/> GEOL 350 (5) Env Geochem 14                                                                                                                                                                                                          |
| Research or Practicum Experience      |                                                                                                                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> ESCI 490, ESCI 491, ESCI 492 1-4                                                                                                                                                                                                                                                                                                                       |
| Credits                               | 59-60                                                                                                                                                                                                                                                                                                                                                                           | 68-73                                                                                                                                                                                                                                                                                                                                                                           |