Environmental Science

Aquatic Ecosystems Theme The biological study of streams occurs at the organismal, population, and ecosystem levels and includes both descriptive and experimental research to understand human and/or climate change impacts on native stream organisms and ecosystems. Stream biologists work for local, state, and federal government agencies,for the environmental or engineering consultants, for environmental groups, and in education on a variety of tasks ranging from fish and macroinvertebrate surveys to habitat evaluation and design.

	BA	**BS**
Required (3 courses, 12 cr)	☐ ESCI 101 (5) Intro Env Sci ☐ ESCI 250 (5) Env Res Methods ☐ ESCI 494 (2) Senior Sem (W) 12	☐ ESCI 101 (5) Intro Env Sci ☐ ESCI 250 (5) Env Res Methods ☐ ESCI 494 (2) Senior Sem (W) 12
Social Sciences (1 course or 4 cr)	*One Course From* ☐ ECON 350 (4) Env Nat Res Econ ☐ GEOG 292S (4) Pop Geog ☐ GEOG 230S (4) Urban Geog ☐ POLI 221S (4) State Local Gov ☐ POLI 321 (4) Public Policy 4	*Two Courses From* ☐ ECON 350 (4) Env Nat Res Econ ☐ GEOG 292S (4) Pop Geog ☐ GEOG 230S (4) Urban Geog ☐ POLI 221S (4) State Local Gov ☐ POLI 321 (4) Public Policy 8
Math or Comp Sci	☐ Statistics from MATH 127Q (4), BUSI 110Q, MATH 227 (4), or PSYC 107Q (4) 4	☐ Statistics from MATH 127Q (4), BUSI 110Q, MATH 227 (4), or PSYC 107Q (4) ☐ MATH 131Q (4) Essen Calc *OR* MATH 201Q (4) Calc I and Math 202Q (4) Calc II *OR* COMP 150 (5) Programming 8-9
Foundational Courses	☐ BIOL 170B (5) Concepts 1 ☐ BIOL 180B (5) Concepts 2 ☐ GEOL 160B (5) Environ Geol *OR* GEOL 170B (5) Critical Zone ☐ CHEM 121B (5) Mod of Chem Sys ☐ CHEM 162B (5) Chem Struc Anal 25	☐ BIOL 170B (5) Concepts 1 ☐ BIOL 180B (5) Concepts 2 ☐ GEOL 160B (5) Environ Geol *OR* GEOL 170B (5) Critical Zone ☐ CHEM 121B (5) Mod of Chem Sys ☐ CHEM 162B (5) Chem Struc Anal 25
Advanced Courses	☐ BIOL 341 (5) Limnology ☐ BIOL 342 (5) Stream Ecol ☐ GEOL 350 (5) Env Geochem OR GEOL 315 (4) Watershed Hydr 14-15	☐ BIOL 341 (5) Limnology ☐ BIOL 342 (5) Stream Ecol ☐ GEOL 350 (5) Env Geochem OR GEOL 315 (4) Watershed Hydr 14-15
Research or Practicum Experience		☐ ESCI 490, ESCI 491, ESCI 492 1-4
Credits	59-60	68-73