A Course of Study for
ENVIRONMENTAL SCIENCE

Environmental Science is an interdisciplinary and multidisciplinary course of study that presents an overview of ecological issues from a scientific perspective. With a broad foundation across the natural sciences, the coursework examines the interrelated nature of environmental and social systems. This program is designed to equip students with the skills and tools to successfully use the scientific method while studying and solving environmental problems.

For additional career possibilities, visit the Career Services Center on the main campus to utilize computerized career information systems and other valuable career resources.

PROGRAMS OFFERED
- Transfer Preparation
- Environmental Science Associate Degree
- Environmental Science Certificate of Achievement (39 units)

TRANSFER PREPARATION
Many colleges/universities offer baccalaureate degrees in this field. Students planning to transfer to a four-year college or university should complete the lower-division major requirements and the general education pattern for the specific transfer institution. SMC has articulation agreements with the many UC and CSU campuses, as well as several private and out-of-state institutions.

Exact major requirements for UC and CSU campuses can be found online at assist.org.

A listing of private, non-profit California colleges and universities can be found online at aiccu.edu. For articulation agreements between SMC and some of these institutions see smc.edu/articulation.
ENVIRONMENTAL SCIENCE, ASSOCIATE DEGREE OR CERTIFICATE OF ACHIEVEMENT

Program Learning Outcomes: Upon completion of the program, students will demonstrate through oral and written work knowledge of the physical, biological, and social sciences required to effectively address current environmental issues, and be prepared to pursue further study in an Environmental Science program (or related field of study) at the baccalaureate level. In addition, students will be proficient in the research, analytical, and communication skills necessary to present a critical analysis of the interplay between natural and social systems, the behaviors that impact and affect the environment, and proposed solutions to the myriad environmental challenges facing the world today.

Introductory Courses; Select 1 of the following courses: (3 units)
- BIOL 9, Environmental Biology (3)
  or
- ENVRN 7, Introduction to Environmental Studies (3) *(same as GEOG 7)*

Required Life Science Courses: (9 units)
- BIOL 22, Genetics and Molecular Biology (4)
- BIOL 23, Organismal and Environmental Biology (5)

Required Chemistry Courses: (10 units)
- CHEM 11, General Chemistry I (5)
- CHEM 12, General Chemistry II (5)

Required Geology and/or Physics Courses; Select 1 of the following courses: (4 units)
- GEOL 4, Physical Geology with Laboratory (4)
- PHYSCS 6, General Physics I with Lab (4)
- PHYSCS 7, General Physics 2 with Lab (4)
- PHYSCS 8, Calculus-based General Physics I with Lab (4)
- PHYSCS 9, Calculus-based General Physics 2 with Lab (4)
- PHYSCS 21, Mechanics with Lab (5)
- PHYSCS 22, Electricity and Magnetism with Lab (5)

Required Mathematics Courses: (10 units)
- MATH 7, Calculus 1 (5)
- MATH 8, Calculus 2 (5)

Required Economics Courses; Select 1 of the following courses: (3 units)
- ECON 1, Principles of Microeconomics (3)
- ECON 2, Principles of Macroeconomics (3)