SANTA MONICA COLLEGE

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 (39 units)
- Environmental Science Certificate of Achievement (39 units)

ASSOCIATE DEGREE REQUIREMENTS

An Associate degree is granted upon successful completion of a program of study with a minimum overall grade point average (GPA) of 2.0 (C) and a minimum of **60 degree applicable semester units**, including:

- Completion of the area of emphasis with a grade of C or higher in each course, or with a P if the course was taken on a Pass/No Pass basis, and the P is equal to a C or higher;
- Completion of at least 50% of area of emphasis units at Santa Monica College;
- Completion of one of the following general education patterns: SMC GE, CSU GE, or IGETC;
- Completion of the SMC Global Citizenship graduation requirement.

CERTIFICATE OF ACHIEVEMENT REQUIREMENTS

A Certificate of Achievement is granted upon successful completion of a program of study with a minimum overall grade point average (GPA) of 2.0 (C) and a **designated minimum number of units**, including:

- Completion of the area of emphasis with a grade of C or higher in each course, or with a P if the course was taken on a Pass/No Pass basis, and the P is equal to a C or higher;
- Completion of at least 50% of area of emphasis units at Santa Monica College;

CATALOG RIGHTS

A student may satisfy the requirements of a degree that were in effect at any time of the student's ***continuous*** enrollment. Continuous enrollment is defined as enrolment in consecutive Fall and Spring semesters until completion.

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, nonprofit 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.

AREA OF EMPHASIS: (39 UNITS)

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)

Geology and/or Physics Courses: Select 1 of the following courses: (4 units minimum)

- **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)

Economics Courses: Select 1 of the following courses: (3 units)

- **ECON** 1, Principles of Microeconomics (3)
- **ECON** 2, Principles of Macroeconomics (3)