SCIENCE AND MATHEMATICS (SCM)

SCM Courses

SCM 101. Introduction to Health Profession Careers. 1 unit
CR/NC
Introduction to health profession careers. Professionals from within
the health care industry provide an overview of their careers. Emphasis
on creating a pre-health career plan, academic course selection,
attaining appropriate experiences, and elements of a strong professional
application. Intended for students undecided about their health
professions career choice. Credit/No Credit grading only. 1 activity.

SCM 150. Supplemental Workshops in Science. 1 unit
CR/NC
Concurrent: Enrollment in the designated section of the associated
course.

SCM 220. Seminar for Science and Math Tutors. 1 unit
CR/NC
Prerequisite: MATH 142, PHYS 132, PHYS 133, PHYS 122, PHYS 123, PSC
102, or PSC 103; and consent of instructor.

SCM 230. Seminar for Learning Assistants. 2 units
CR/NC
Prerequisite: BIO 160, BIO 161, CHEM 124, CHEM 127, MATH 141, PHYS
131, or PHYS 141.

SCM 270. Selected Topics. 1-4 units
Prerequisite: Open to undergraduate students and consent of instructor.

SCM 300. Early Field Experience. 4 units
CR/NC
Prerequisite: Sophomore standing; for Math majors or Science and
Engineering majors only.

SCM 301. Professional School Preparation for Health Profession Careers.
1 unit
CR/NC
Prerequisite: Junior standing; completion of GE Area A with grades of
C- or better; minimum of 3.0 CPSLO GPA; and consent of instructor.
Recommended: SCM 101 and completion of GWR.

SCM 302. The Learn By Doing Lab Teaching Practicum. 2 units
CR/NC
Prerequisite: Completion of GE Areas B1 through B4, with a grade of C-
or better in one course in GE Area B4 (GE Area B1 for students on the
2019-20 or earlier catalogs).

SCM 320. Technology in London. 4 units
2020-21 or later: Upper-Div GE Area B
2019-20 catalog catalog: GE Area B7
2017-19 or earlier catalog: GE Area F
Prerequisite: Junior standing; enrollment in London Study program;
completion of GE Area A with grades of C- or better; and completion of GE
Areas B1 through B4, with a grade of C- or better in one course in GE Area
B4 (GE Area B1 for students on the 2019-20 or earlier catalogs).

Impact of one or two technologies in modern London. Development
of the technology from the scientific/industrial revolution, as seen
through London museums and industries. Technological solutions to
modern problems, and their dependence on available technology. Field
trips required. The Class Schedule will list topic selected. 2 lectures, 2
activities. Fulfills GE Upper-Division B (GE Area B7 for students on the
2019-20 catalog; GE Area F for students on earlier catalogs).
SCM 335. Nuclear Science and Society. 4 units
2020-21 or later: Upper-Div GE Area B
2019-20 catalog catalog: GE Area B7
2017-19 or earlier catalog: GE Area F
Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; and completion of GE Areas B1 through B4, with a grade of C- or better in one course in GE Area B4 (GE Area B1 for students on the 2019-20 or earlier catalogs).

Impact of nuclear phenomena on energy production, warfare, health and medicine, and the environment. Scientific and public policy aspects of reactor design, nuclear accidents, disposal of radioactive waste, nuclear medicine, food irradiation, nuclear weapons, and fusion as potential energy source. 4 lectures. Fulfills GE Upper-Division B (GE Area B7 for students on the 2019-20 catalog; GE Area F for students on earlier catalogs).

SCM 350. The Global Environment. 4 units
2020-21 or later: Upper-Div GE Area B
2019-20 catalog catalog: GE Area B7
2017-19 or earlier catalog: GE Area F
Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; and completion of GE Areas B1 through B4, with a grade of C- or better in one course in GE Area B4 (GE Area B1 for students on the 2019-20 or earlier catalogs).

Interdisciplinary investigation of how human activities impact the Earth's environment on a global scale. Examination of population, resource use, climate change, and biodiversity from scientific/technical and social/economic/historical/political perspectives. Use of remote sensing maps. Sustainable solutions. 4 lectures. Crosslisted as AG/EDES/ENGR/GEOG/ISLA/SCM/UNIV 350. Fulfills GE Upper-Division B (GE Area B7 for students on the 2019-20 catalog; GE Area F for students on earlier catalogs).

SCM 360. Selected Environmental Issues of California's Central Coast. 4 units
2020-21 or later: Upper-Div GE Area B
2019-20 catalog catalog: GE Area B7
2017-19 or earlier catalog: GE Area F
Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; and completion of GE Areas B1 through B4, with a grade of C- or better in one course in GE Area B4 (GE Area B1 for students on the 2019-20 or earlier catalogs).

Examination of several inter-related environmental issues currently affecting California's Central Coast region. Focuses on the role of technology in creating/mitigating environmental problems. Field trips required. 3 lectures, 1 activity. Fulfills GE Upper-Division B (GE Area B7 for students on the 2019-20 catalog; GE Area F for students on earlier catalogs).

SCM 363. Public Health Fieldwork. 2 units
CR/NC
Prerequisite: Junior standing; must have been enrolled at Cal Poly for at least two quarters; consent of instructor.

Structured observational experiences for pre-health students at the County Health Agency. Designed to promote awareness and understanding of public health careers, as well as provide practical experience. Limited space availability. Application process for enrollment available from CSM Advising Office. Total credit limited to 6 units. Credit/No Credit grading only.

SCM 470. Selected Advanced Topics. 1-4 units
Prerequisite: Consent of instructor.

Directed group study of selected topics for advanced students. Open to undergraduate and graduate students. The Class Schedule will list topic selected. Total credit limited to 8 units. 1 to 4 lectures.

SCM 471. Selected Advanced Laboratory. 1-4 units
Prerequisite: Consent of instructor.

Directed group laboratory study of selected topics for advanced students. Open to undergraduate and graduate students. The Class Schedule will list topic selected. Total credit limited to 8 units. 1 to 4 laboratories.