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**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, obtaining 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.
Facilitated study and discussion of the theory, concepts, and applications of content material from selected biology, chemistry, physics, and statistics courses. Credit/No Credit grading only. Total credit limited to 8 units. Maximum of 2 units for degree credit. 1 laboratory.

**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.
Concepts of teaching and learning as it relates to roles as K-12 grade science and math tutors and/or classroom assistants. Restricted to students who are Teaching Assistants in Math and Science (TeAMS) tutors or Volunteers in Out of School Time (VOST). Participation in public schools requires mandated fingerprint clearance. 1 activity.

**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.
Introduction to learning theory and teaching practices for mathematics and science learning assistants regarding conceptual development, questioning techniques, cooperative learning, nature of math and science, and argumentation in mathematics and science. Restricted to students admitted to the Learning Assistant program. Total credit limited to 6 units. Degree credit limited to 4 units. 2 seminars.

**SCM 270. Selected Topics.** 1-4 units
Prerequisite: Open to undergraduate students and consent of instructor.
Directed group study of selected topics. The Class Schedule will list topic selected. Total credit limited to 8 units. 1 to 4 lectures.

**SCM 300. Early Field Experience.** 4 units
CR/NC
Prerequisite: Sophomore standing; for Math majors or Science and Engineering majors only.
Historical, philosophical, and social foundations of public science and mathematics education. Public school curriculum and professional education dispositions. Structured observation and participation in K-12 public schools with attention to instructional practices for diverse learners. Credit/No Credit grading only. 2 lectures, 2 activities.

**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.
Application strategies and preparation for health professions programs. Analysis of the application requirements and critique of personal application components. Credit/No Credit grading only. 1 activity.

**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).
Early teaching experience in an informal science, technology, engineering, and mathematics (STEM) teaching and learning environment. Principles of inquiry-driven STEM education, lesson design, implementation and assessment. Intended for undergraduates exploring STEM teaching as a career. Total credit limited to 4 units. Credit/No Credit grading only. 1 seminar, 1 laboratory. Crosslisted as ENGR 322/SCM 302/HNRS 302.

2020-21 or later: Upper-Div GE Area B
2019-20 or earlier catalog: GE Area B5, B6, or B7
Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; one course from GE Area B1 (GE Area B4 for students on the 2019-20 or earlier catalogs); one course from GE Area B2; and one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs).
Scientific investigation of the natural features of the Cal Poly landscape and their transformations by land management technology. Environmental, economic, social, and political effects of agriculture, resource extraction, construction technology. Educational, land-use, long term planning issues. 4 lectures. Crosslisted as AG/ISLA/SCM/UNIV 330. Fulfills GE Area Upper-Division B (GE Areas B5, B6, or B7 for students on the 2019-20 catalog).
SCM 350. The Global Environment. 4 units  
2020-21 or later: Upper-Div GE Area B  
2019-20 or earlier catalog: GE Area B5, B6, or B7  
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 Area Upper-Division B (GE Areas B5, B6, or B7 for students on the 2019-20 catalog).

SCM 360. Selected Environmental Issues of California’s Central Coast. 4 units  
2020-21 or later: Upper-Div GE Area B  
2019-20 or earlier catalog: GE Area B5, B6, or B7  
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 Area Upper-Division B (GE Areas B5, B6, or B7 for students on the 2019-20 catalog).

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.