College of Natural Sciences

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(909) 537-5300 College of Natural Sciences website (http://nsci.csusb.edu)

Departments/Schools
• Biology (http://biology.csusb.edu/)
• Chemistry and Biochemistry (http://chem.csusb.edu/)
• Computer Science and Engineering (http://cse.csusb.edu/)
• Geological Sciences (http://geology.csusb.edu/)
• Health Science and Human Ecology (http://health.csusb.edu/)
• Kinesiology (https://www.csusb.edu/kinesiology/)
• Mathematics (http://www.math.csusb.edu/)
• Nursing (http://nursing.csusb.edu/)
• Physics (http://physics.csusb.edu/)

Courses

NSCI 1110. Reacting to the Past: Natural Sciences Perspectives. Units: 3
Examination of a critical change in the natural sciences through the study of the context and impact of a specific idea, innovation or discovery. Using the Reacting to the Past approach, students play complex role-playing games informed by important historical sources (specific themes and topics may vary). Students will develop skills in information literacy, collaboration, speaking, and writing as they pursue the objectives of their assigned role by convincing classmates of their views. Following the game, debriefing will facilitate deeper understandings of the focus concepts and provide reflection about how learning occurred. These skills are critical foundations of success in any field of study at the University and beyond. Satisfies GE category E.

NSCI 1200. Scientific Thinking for Community Resilience. Units: 3
Exploration of scientific ways of thinking: how scientific knowledge is created and how it is (or could be) communicated to those who use (or could use) it to solve community problems, emphasizing acquisition of academic skills that will be transferrable to other courses. Learning to see the world through the lens of scientific and mathematical analysis, and reflection on how this lens differs from other lenses. Learning how scientific knowledge is created through collaborative processes among those with diverse perspectives. Appreciation of the scientific literature as a professional conversation that expands our understanding of our natural world. Group projects will apply scientific thinking and other approaches to solving environmental problems affecting our local and global communities. Satisfies GE category E.

NSCI 3010. Introduction to STEM and STEM Research. Units: 2
Quarter Prerequisite: Permission of the instructor
Introduction to resources for upper division transfer students, including the library, financial aid, Office of Student Research, and the Career Center. Presents expectations for and tools to help achieve success for students, including active/collaborative learning, reflective learning, and how to pursue undergraduate research and internships. Formerly offered as NSCI 301, students may not receive credit for both courses.

NSCI 3066. Science Writing as Academic Inquiry. Units: 3
Semester Prerequisite: Satisfactory completion of the Written Communication, A2 and Critical Thinking, A3 GE categories and a minimum of 60 semester, 90 quarter, units of college credit
This writing intensive course focuses on writing in and about the natural sciences. Students will gain a deeper and more conscious sense of both the possibilities of scientific inquiry and the role of language and writing in scientific inquiry and knowledge making. Through reading, discussion, writing, and research, students will explore, analyze, and write within a variety of science-related genres, including formal scientific writing eg, research and review papers, proposals, as well as those used by scientists to communicate with the general public. Revision, rewriting, and collaboration are key components of the course. This course will also consider the complexities of information creation and dissemination as they relate to the natural sciences. Counts towards the General Education upper division Writing Intensive requirement. Offered as NSCI 3066 and ENG 3066, formerly NSCI 306, students may not earn credit for more than one of these courses. Graded A through C-/no credit.

NSCI 3250. Perspectives on Gender. Units: 3
Semester Prerequisite: junior or senior standing. Quarter Prerequisite: junior or senior standing
This interdisciplinary course uses scientific, humanistic, and social science perspectives to foster an understanding of how gender functions in individual lives, societies, and cultures. (Offered as CAL 3250, SSCI 3250 and NSCI 3250. Students may receive credit for only one of these courses.) Satisfies GE Category B5; DI designation; G designation. Formerly offered as NSCI 325, SSCI 325 and HUM 325.

NSCI 3368. MARC Seminar I. Units: 2
Quarter Prerequisite: Admission into the MARC program
A selected examination of original research articles in behavioral and biomedical sciences. Students will learn to critically read, critique, and present published scientific findings. Offered as NSCI 3368, PSYC 3368, and SSCI 3368 (students may receive credit for only one of these courses). Enrollment is limited to students whose formal application to the Minority Access to Research Careers (MARC) program is approved.

NSCI 4468. MARC Seminar II. Units: 2
Semester Prerequisite: NSCI 3368, PSYC 3368, or SSCI 3368. Quarter Prerequisite: NSCI 368, PSYC 368 or SSCI 368
A selected examination of original research articles in behavioral and biomedical sciences focusing on improving scientific writing skills, shaping long-term research projects, and the development of research funding proposals. Offered as PSYC 4468, NSCI 4468, and SSCI 4468 (students may receive credit for only one of these courses). Enrollment is limited to students whose formal application to the Minority Access to Research Careers (MARC) program is approved.