

SCHOOL OF NATURAL SCIENCES, MATHEMATICS, AND ENGINEERING

Natural Sciences, Mathematics, and Engineering (nsme) (p. 1)

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The School of Natural Sciences, Mathematics, and Engineering offers several courses with the SCI prefix. Some are designed to satisfy the science requirements for the subject matter preparation program leading to a multiple subject credential. Others are offered as options to satisfy the General Education Upper Division Thematic Area B requirement in Natural Science and Technology. These courses are listed separately under SCI.

Mission

The School of Natural Sciences, Mathematics, and Engineering has a tradition for excellence in teaching and providing a wealth of research opportunities to undergraduate and graduate students alike. The School is committed to providing an outstanding educational experience consistent with the University's vision to be the leading campus in the CSU system in terms of faculty and academic excellence and diversity, quality of the student experience, and community engagement.

The objectives of the School of Natural Sciences, Mathematics, and Engineering are to:

- Offer required coursework in science, mathematics, engineering, and nursing, for students majoring in these disciplines or the teaching of these disciplines.
- Promote science and health education for the purpose of improving the human condition.
- Foster scientific integrity in all professional endeavors.
- Prepare students for entry into the workforce in technical and healthcare services.
- Prepare students for admission to graduate programs.
- Prepare students for admission to professional programs in nursing, medicine, dentistry, pharmacy, and other health professions.
- Prepare students for leadership roles in the community.

Departments & Programs

Department of Biology

- Biology, BS (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/biology-bs/>)
- Biology, BS, Concentration in Biotechnology (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/biology-bs-concentration-biotechnology/>)
- Biology, MS (<https://catalog.csub.edu/academic-degrees-programs/graduate-programs/biology-ms/>)

- Human Biological Sciences, BA (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/human-biological-sciences-ba/>)
- Natural Sciences, BS, Biology Concentration (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/natural-sciences-bs-biology-concentration/>)
- Natural Sciences, BS, Chemistry Concentration (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/natural-sciences-bs-chemistry-concentration/>)
- Natural Sciences, BS, Foundational Science Concentration (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/natural-sciences-bs-foundational-science-concentration/>)
- Natural Sciences, BS, Geology Concentration (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/natural-sciences-bs-geology-concentration/>)
- Natural Sciences, BS, Physics Concentration (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/natural-sciences-bs-physics-concentration/>)

Department of Chemistry and Biochemistry

- Biochemistry, BS (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/biochemistry-bs/>)
- Biochemistry, BS, Concentration in Food Science (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/biochemistry-bs-concentration-food-science/>)
- Biology Minor (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-minors/biology-minor/>)
- Chemistry Minor (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-minors/chemistry-minor/>)
- Chemistry, BS (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/chemistry-bs/>)
- Chemistry, BS, Certified by the American Chemical Society (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/chemistry-bs-certified-american-chemical-society/>)
- Chemistry, BS, Concentration in Management and Marketing (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/chemistry-bs-concentration-management-marketing/>)
- Chemistry, BS, Concentration in Occupational Safety and Health Management (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/chemistry-bs-concentration-occupational-safety-health-management/>)

Department of Computer and Electrical Engineering and Computer Science

- Computer Engineering, BS (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/computer-engineering-bs/>)
- Computer Science Minor (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-minors/computer-science-minor/>)
- Computer Science, BS (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/computer-science-bs/>)
- Computer Science, BS, Concentration in Computer Information Systems (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/computer-science-bs-concentration-computer-information-systems/>)

- Computer Science, BS, Concentration in Information Security (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/computer-science-bs-concentration-information-security/>)
- Computer Science, MS (<https://catalog.csub.edu/academic-degrees-programs/graduate-programs/computer-science-ms/>)
- Electrical Engineering, BS (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/electrical-engineering-bs/>)
- Electrical Engineering, BS, with Energy and Power Engineering Emphasis (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/electrical-engineering-bs-energy-power-engineering-emphasis/>)
- Mathematics, BS, Applied Mathematics Concentration (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/mathematics-bs-applied-mathematics-concentration/>)
- Mathematics, BS, Blended Teaching Concentration (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/mathematics-bs-blended-teaching-concentration/>)
- Mathematics, BS, Pure Mathematics Concentration (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/mathematics-bs-pure-mathematics-concentration/>)
- Mathematics, BS, Statistics Concentration (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/mathematics-bs-statistics-concentration/>)
- Mathematics, BS, Teaching Concentration (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/mathematics-bs-teaching-concentration/>)
- Statistics Minor (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-minors/statistics-minor/>)

Department of Geological Sciences

- Geology Minor (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-minors/geology-minor+/>)
- Geology, BA (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/geology-ba/>)
- Geology, BS (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/geology-bs/>)
- Geology, MS (<https://catalog.csub.edu/academic-degrees-programs/graduate-programs/geology-ms/>)

Department of Nursing

- Nursing, BSN (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/nursing-bsn/>)
- Nursing, MSN (<https://catalog.csub.edu/academic-degrees-programs/graduate-programs/nursing-msn/>)
- Nursing, RN-BSN (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/nursing-rn-bsn/>)

Department of Physics and Engineering

- Engineering, BS (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/engineering-bs-accredited-abet/>)
- Engineering, BS, Biosystems and Agricultural Engineering Emphasis (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/engineering-bs-biosystems-agricultural-engineering-emphasis/>)
- Engineering, BS, Energy and Power Engineering Emphasis (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/engineering-bs-energy-power-engineering-emphasis/>)
- Engineering, BS, Engineering Management Emphasis (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/engineering-management-emphasis/>)
- Engineering, BS, Petroleum Engineering Emphasis (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/engineering-bs-petroleum-engineering-emphasis/>)
- Physics Minor (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-minors/physics-minor/>)
- Physics, BS (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-majors/physics-bs/>)

Department of Mathematics

- Mathematics Minor (<https://catalog.csub.edu/academic-degrees-programs/undergraduate-minors/mathematics-minor/>)