

Space Science and Engineering

OFFICE: Galbraith Hall, Room 180,
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The following are minor requirements for students admitted to UCSD January 1, 1998, and later. Students admitted to UCSD prior to the above date must see the program adviser to confirm minor requirements.

The space science and engineering minor is a focused set of seven upper-division courses open to students with junior standing in one of the following departments: MAE, chemistry, CSE, ECE, or physics. Other students with suitable chemistry, physics, and mathematics preparation may also pursue the minor.

The minor has three objectives. It is designed to offer an appropriate preparation for careers in space research and technology, with transcript notation of such a concentration of use to students. The minor can help balance strongly focussed departmental offerings with a broader interdisciplinary approach that can foster inter-departmental activities beneficial to students. Finally such a minor contributes to the preservation and renewal of the broad, interdisciplinary style which has distinguished UCSD from other leading research universities.

Curriculum

The minor consists of two required courses, Space Science (MAE 180A) and Space Engineering (MAE 180B), plus five electives to be chosen from a list of courses with the approval of an adviser. The present list of electives includes:

CHEM 170. Cosmochemistry

ECE 120. Solar System Physics

ECE 166. Microwave Systems and Circuits
(extensive prerequisites, lab component)

ERTH 130. Geodynamics of Terrestrial Planets

MAE 155A-B. Aerospace Engineering Design

PHYS 160. Stellar Astrophysics

PHYS 161. Black Holes and the Milky Way
Galaxy

PHYS 162. Galaxies and Cosmology

PHYS 163. Exploring the Solar System

SE 144. Aerospace Structural Analysis