

CHEMISTRY/EARTH SCIENCES

Requirements for the CHEMISTRY/EARTH SCIENCES B.S. Degree

The Chemistry/Earth Sciences major is available in cooperation with UCSD's Scripps Institution of Oceanography. It requires course work for a major in chemistry, plus additional courses in geology. It will appeal to students who plan to go on to graduate school in related fields, or to those students who plan to go into professional geologic work with their undergraduate degree.

The following courses must be taken for a letter grade:

Lower-Division Requirements

1. General chemistry including laboratory (Chem. 6A-6C or 6AH-6CH and 6BL, or equivalent).
2. Calculus (Math. 20A-20D, or equivalent).
3. Calculus-based physics including laboratory (Phys. 2A-2B and 2D or equivalent, and either 2BL, 2CL or 2DL. Phys. 2CL is recommended and is accessible without Phys. 2C). Phys. 2C is recommended as preparation for the upper-division Earth Sciences sequence, but it is not required for the major.

Upper-Division Requirements

1. Two quarters of organic chemistry (Chem. 140A-B or 141A-B).
2. Three quarters of physical chemistry (Chem. 131-133).
3. Two quarters of inorganic chemistry (Chem. 120A-120B). Chem. 114A can substitute for Chem. 120B.
4. Six upper-division labs: Chem. 100A, 100B, 143AM or 143A, 105A, Erth. 162L and one of the following: Chem. 105B, 112A, 112B, 123, 143B, 143C, or 143D.
5. Five Earth Sciences courses (Erth. 101-103, 120 and 162A).
6. One additional course from the following list: SIO 252, 253, 259, 260, 261, Chem. 149A, 149B, 170, 171, 173. Petrology is essential for geology students. SIO 253 should be taken by students planning to go on to graduate school or to do professional geologic work with their undergraduate degrees. Students are encouraged to take at least one quarter of Chem. 199.

Suggested Program for Chemistry/Earth Sciences B.S. Major

(Talk to your college for planning general education courses)

Many courses have enforced prerequisites or are offered once per year.

FALL	WINTER	SPRING
FRESHMAN YEAR		
Chem. 6A Math. 20A	Chem. 6B Math. 20B	Chem. 6C Chem. 6BL Math. 20C
SOPHOMORE YEAR		
Chem. 100A * Chem. 140A Math. 20D	Chem. 140B Chem. 143AM Phys. 2A	Chem. 100B Phys. 2B Phys. 2CL
JUNIOR YEAR		
Chem. 131 * Erth. 101 Phys. 2D	Chem. 132 Erth. 102 Erth. 120	Chem. 105A Chem. 133 Erth. 103
SENIOR YEAR		
Chem. 114A** Chem. 120A	Erth. 162A Erth. 162L	Elective Elective Lab

* Best time to study abroad. Education Abroad Program deadlines for upcoming year vary by country. See EAP website. See the Chem/Biochem Undergraduate Advisor for assistance in planning to study abroad.

** Chem. 120B (winter quarter) may be substituted.

RESOURCES

To be successful in your academic career, you will need to make the most of the services available to you at UCSD. Get connected to the services available to you as soon as possible to make the most of your education!

American Chemical Society-Student Affiliates

Email: acssa@ucsd.edu

www-acs.ucsd.edu/~acssa

UCSD Web Site: www.ucsd.edu

UCSD General Catalog

www.ucsd.edu/catalog

purchase at UCSD Bookstore, 858-534-7323

UCSD Career Services Center

858-534-3750, www-csc.ucsd.edu

UCSD Undergraduate Admissions

858-534-4831, admissions.ucsd.edu

Campus Walking Tours

858-822-1455, campustours@ucsd.edu

Education Abroad Program

858-534-1123,

<http://pao.ucsd.edu/acadint/chemistry.htm>

Undergraduate Colleges

The colleges determine the general education requirements that you must complete in addition to your major requirements. Be sure to meet with a college adviser.

Thurgood Marshall, 858-534-4110,

www.provost.ucsd.edu/marshall

John Muir, 858-534-3580,

www.provost.ucsd.edu/muir

Revelle, 858-534-3490,

www.provost.ucsd.edu/revelle

Eleanor Roosevelt, 858-534-9864,

www.provost.ucsd.edu/roosevelt

Earl Warren, 858-534-4350,

www.provost.ucsd.edu/warren

Sixth College, 858-822-5955,

www-sixth.ucsd.edu