

Chemistry | Bachelor of Arts • Bachelor of Science • Minor

Southern's Chemistry Department offers students a discovery-based education that provides them with a strong foundation as well as the ability to explore numerous sub-disciplines within the field. Students learn on state-of-the-art specialized instrumentation and laboratory equipment. Significant laboratory experience, faculty-mentored research, and small class and laboratory sizes are capstones of this program, which provides graduates with excellent qualifications to be competitive for job placement in the workforce.

PROGRAM FEATURES

Chemistry, B.S. — Concentration: Biochemistry (most popular)

This interdisciplinary degree offers students a focused, well-rounded curriculum. Students take four Biology courses along with their Chemistry curriculum, allowing them to potentially earn a Biology minor. This concentration provides a solid grounding in all traditional areas of Chemistry: Analytical, Inorganic, Physical Chemistry with an emphasis in Organic Chemistry and Biochemistry, while choosing from courses such as Drug Discovery, Medicinal Chemistry, and Pharmacology among other chemistry electives. This is a very popular concentration with pre-health students.

Chemistry, B.S. — Concentration: Environmental Chemistry

This interdisciplinary curriculum exposes students to courses directly relevant to their area of interest yet provides a solid grounding in traditional areas of Chemistry, such as Organic, Inorganic, Analytical and Physical Chemistry with an emphasis in Environmental and Instrumental Chemistry. Students take four environmental cognate courses in Marine Studies, Earth Science, Biology, or Environmental Studies along with their Chemistry curriculum. This concentration can be personalized to allow the student to earn a minor in one of these areas.

Chemistry, B.S. — Concentration: General | Major areas of chemistry, such as Organic, Inorganic, Analytical, and Physical, play a significant role in this degree, alongside elective courses in areas such as Biochemistry, Medicinal Chemistry, Drug Discovery, Pharmacology, Computational Chemistry, Instrumental Chemistry, Chemical Education, and Environmental Chemistry. Students are encouraged to use their elective Chemistry courses to pursue research with a faculty member.

Graduates go on to attend graduate school, medical school, or by acquiring a job in industry or academia.

B.S. Chemistry with 7-12, B.S. (teaching certification) | This program equips students with the knowledge and certification they need to teach 7-12 chemistry. Graduates also are qualified to pursue other careers in chemistry, should they decide to not pursue teaching.

Chemistry, B.A. — General | Similar to the Chemistry B.S. Concentration: General with two fewer Chemistry courses being required to allow room for a double major.



Chemistry B.S./M.S. Accelerated Pathway | These flexible five-year programs provide students with the opportunity to explore the five main branches of chemistry: organic, inorganic, analytical, physical, and biochemistry.

Chemistry Minor | The minor in Chemistry provides students from other majors solid grounding in an area of Chemistry of their choosing. Ideal for students from a variety of disciplines such as Biology, Physics, Exercise Science, or those interested in pursuing Medical School.

For more information on program requirements, visit Catalog.SouthernCT.edu/undergraduate

CAREER OPPORTUNITIES

There are many rewarding careers you can pursue with a degree in Chemistry, including:

- Academic researcher • Analytical chemist • Biotechnologist
- Chemical engineer • Clinical scientist, biochemistry
- Forensic scientist • Nanotechnologist • Pharmacologist

FOR MORE INFORMATION

Undergraduate Admissions Office

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SouthernCT.edu/admissions/undergraduate

Expect more. Be more.
Southern.

