

College of Sciences and Engineering

Fields of Study

The Chemistry program offers a Bachelor of Science (B.S.) degree in Chemistry with several program options:

- Traditional Chemistry, geared toward entry to graduate school or the workplace;
- Pre-medicine Chemistry; or
- A five-year dual-degree Chemistry/Chemical Engineering program offered in conjunction with the Louisiana State University (LSU) Department of Chemical Engineering.

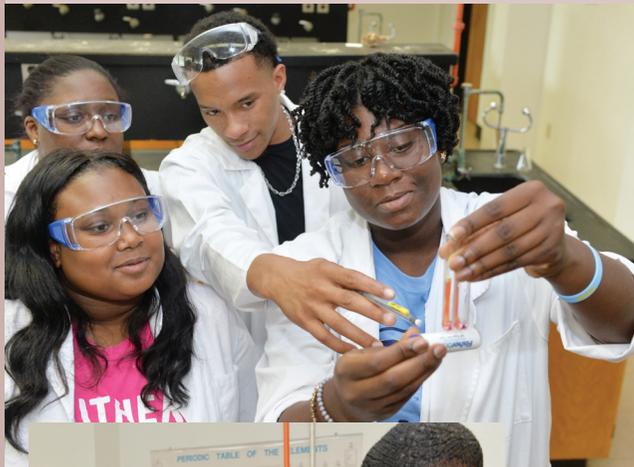
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Chemistry



Southern University and A&M College



**SOUTHERN
UNIVERSITY**
AND AGRICULTURAL & MECHANICAL COLLEGE

Southern University and A&M College • College of Sciences and Engineering

Chemistry

Why Chemistry?

Chemistry provides answers to questions about the properties of materials and the changes that they undergo. Studying Chemistry allows us a window of understanding into how everyday activities work. Chemists are involved in practically every aspect of our daily lives. Developments made by chemists in production of soaps, lotions, toothpastes, etc. are essential to our personal care. Clothes are often made of synthetic fibers such as nylon, rayon, or polyesters that were developed by chemists. Chemistry has allowed us to develop pharmaceuticals that improve and prolong our lives. Fertilizers and pesticides developed by chemists have allowed for increased food production.

Whether we are developing a cure for cancer, building electronic devices, or looking for answers to climate change, chemistry is essential.



Why Southern University?

The Southern University Chemistry program has a rich tradition of turning out graduates who have made their marks in the arenas of teaching, research, administration, industry, medicine, dentistry, and other allied science areas. Chemistry students are required to take one or more courses in each of the five traditional chemistry areas: organic, inorganic, analytical, physical, and biochemistry. Students also spend a full year enrolled in chemical research where they can put their classroom learning in practice.

The program is home to research-grade instrumentation including, but not limited to:

- X-ray diffractometer
- X-ray fluorescence
- Transmission electron microscope
- Scanning electron microscope
- Atomic Absorption
- Inductively coupled plasma optical emission spectrometer
- Gas chromatography/mass spectrometry
- Infrared spectrometry
- Differential scanning calorimetry



Scholarship Opportunities

The Chemistry program offers partial scholarships to a limited number of students each semester via a partnership with the Chevron Corporation.

Program Objectives

The Chemistry program seeks to develop students who:

- Demonstrate the ability to think critically and employ critical thinking skills
- Demonstrate an ability to effectively communicate chemical knowledge and experimental results through scientific writings, posters, and oral presentations
- Demonstrate the ability to make connections between concepts across chemistry

