BACHELOR OF SCIENCE IN CHEMISTRY

The School of Chemistry and Biochemistry has a vibrant program of study leading to a Bachelor of Science in Chemistry. The flexibility of the curriculum allows students to study fundamental areas of chemistry while tailoring their degree with technical and free electives to produce a well-rounded experience in preparation for a variety of career opportunities. Students may pursue tailored tracks towards the B.S. in Chemistry, including those allowing specialization in: pre-health science, biochemistry, business, and a polymers and materials option. There are also many opportunities to gain research experience while working with world class research groups. In addition to coursework, students in the program often participate in a variety of experiential programs, including: undergraduate research, cooperative work, study abroad, summer internships, and serving as an undergraduate teaching assistant.

Faculty in the school are committed to undergraduate education and several have won awards for excellence in teaching. With a faculty to undergraduate student ratio of approximately 1:9, the School prides itself on the close contact that it maintains with its undergraduate students. The high quality of the curriculum and faculty is part of the reason chemistry graduates receive job offers at the highest salary levels for B.S. chemists. Graduates with a B.S. in Chemistry pursue careers such diverse field as forensics, environmental science, biotechnology, and pharmaceuticals in industry or governmental organizations; or they may continue their education in the chemical or biological sciences, or in medicine, pharmacy, dentistry, and law. Chemistry, especially with the biochemistry option (or the stand-alone Bachelor of Science in Biochemistry degree), is a superb preparation for medical school.

Chemistry Website

- Bachelor of Science in Chemistry - General
- Bachelor of Science in Chemistry - Biochemistry Option
- Bachelor of Science in Chemistry - Business Option
- Bachelor of Science in Chemistry - Polymers and Materials Option
- Bachelor of Science in Chemistry - Pre-health Option

International Plan

The Bachelor of Science in Chemistry (International Plan) and Bachelor of Science in Biochemistry (International Plan) are offered to undergraduate students seeking to understand their majors in a global perspective. Students in this program must demonstrate proficiency in a foreign language; complete coursework in a country/regional elective, international relations, and global economics; and participate in a study or research abroad experience (usually in the junior year). While abroad, students who are pursuing a research experience are required to complete a supervised project with a faculty member in chemistry or biochemistry at the host institution. Upon successful completion of the degree requirements for the International Plan, an "International Plan" designator is indicated on the diploma. If interested in participating in the International Plan as part of the Bachelor of Science in Chemistry, or Bachelor of Science in Biochemistry, students should visit: www.internationalplan.gatech.edu.

Research Option

The Bachelor of Science in Chemistry (Research Option) and Bachelor of Science in Biochemistry (Research Option) are offered for students who wish to work on a research problem under the supervision of a faculty, or adjunct faculty, member in the School. Participants in the Research Option learn how to address a research problem from experiment design and execution, to interpretation of results. There is an expectation that undergraduates who make significant intellectual contributions to completed studies will be co-authors on papers submitted to high-quality scholarly journals. Research projects are available in the traditional areas of chemistry (analytical, biological, inorganic, organic, physical, and polymer chemistry) as well as highly interdisciplinary research areas, such as nanoscience, polymer and materials chemistry, environmental chemistry and sensors, medicinal chemistry, molecular biophysics, and computational chemistry.

To participate in the Research Option in the School of Chemistry and Biochemistry, students must find a research project under the supervision of a faculty member in the department and apply online via www.undergradresearch.gatech.edu. Successful completion of the Research Option requires the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CHEM 4698/4699</td>
<td>Undergraduate Research Assistantship</td>
<td>9</td>
</tr>
<tr>
<td>LMC 4701</td>
<td>Undergraduate Research Proposal Writing</td>
<td>1</td>
</tr>
<tr>
<td>LMC 4702</td>
<td>Undergraduate Research Thesis Writing (take during the term in which students complete their thesis)</td>
<td>1</td>
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Total Credit Hours 11

1 supervised research with a chemistry or biochemistry faculty over three or more semesters
2 approval of this proposal on project by a committee of two or more faculty
3 submission of an approved thesis

Successful completion of the Research Option is noted on the student’s transcript. Students completing this degree may pursue graduate studies in the chemical or biological sciences or careers in industrial or governmental laboratories.