Bachelor of Science in Biochemistry

The Bachelor of Science in Biochemistry degree program consists of a combination of requirements and electives that ensure a strong foundation in the chemical and biological sciences while providing the flexibility to tailor the curriculum to satisfy specific interests or career goals. This program may be of interest to students who plan careers in research, teaching, or in a life/health science profession (medicine, pharmacy, dentistry). The judicious use of free electives also enables the student to achieve considerable knowledge of other disciplines at Georgia Tech, such as chemical and biomolecular engineering, bioinformatics (computing), biomedical engineering, and biology. The biochemistry curriculum enables majors who are interested in medical, dental, or law school to meet admission requirements of these schools. Successful completion of the Pre-Health Science Option is noted on the student’s transcript.

Chemistry Website (http://www.chemistry.gatech.edu)

- Bachelor of Science in Biochemistry - General (http://www.catalog.gatech.edu/programs/biochemistry-general-bs)
- Bachelor of Science in Biochemistry - Business Option (http://www.catalog.gatech.edu/programs/biochemistry-business-option-bs)
- Bachelor of Science in Biochemistry - Pre-Health Option (http://www.catalog.gatech.edu/programs/biochemistry-prehealth-option-bs)

International Plan

The BS in Chemistry (International Plan) and BS 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 study or research abroad experience (usually in the junior year). While abroad, students are required to complete in a supervised research experience with a faculty member in chemistry and biochemistry at the host institution. Upon successful completion of degree requirements for the International Plan, a "International Plan" designator is indicated on the diploma. If interested in participating in the International Plan as part of the BS in Chemistry or BS in Biochemistry, students should visit: www.internationalplan.gatech.edu (http://www.internationalplan.gatech.edu).

Chemistry Website (http://www.chemistry.gatech.edu)

Research Option

The BS in Chemistry (Research Option) and BS in Biochemistry (Research Option) are offered for students who wish to participate in a research problem under the supervision of one of the fifty members of faculty and adjunct faculty 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 contribute to completed studies will be co-authors on submissions 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 nanochemistry, polymer and materials chemistry, environmental chemistry and sensors, medicinal chemistry, molecular biophysics, and computational chemistry.

To pursue the Research Option in the School of Chemistry and Biochemistry, students should obtain a research project with a faculty member in the department and apply online via www.undergradresearch.gatech.edu (http://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>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 4698/4699</td>
<td>Undergraduate Research Assistantship</td>
<td>9</td>
</tr>
<tr>
<td>CHEM 2698/2699</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>
</tr>
</tbody>
</table>

Total Credit Hours 11

1. supervised research with faculty over three or more semesters
2. approval of 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 option often pursue graduate studies in the chemical or biological sciences or research careers in industrial or governmental laboratories.

Chemistry Website (http://www.chemistry.gatech.edu)