BACHELOR OF SCIENCE IN CHEMISTRY - BUSINESS OPTION

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 BS in Chemistry, including those allowing specialization in: pre-health science, biochemistry, business, polymers, and materials options. There are also tremendous opportunities to gain valuable research experience in state-of-the-art laboratories. In addition to coursework requirements, students in the program often participate in a variety of experiential programs, including: undergraduate research, Cooperative work, study abroad, summer internship, 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 student ratio of approximately 1:6, 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 BS chemists. Graduates of the BS in Chemistry pursue careers such diverse field as forensics, environmental science, nanoscience, biotechnology, 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 BS in Biochemistry degree) is a superb preparation for medical school.

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

Wellness
APPH 1040 Scientific Foundations of Health or APPH 10 The Science of Physical Activity and Health 2

Core A - Essential Skills
ENGL 1101 English Composition I 3
ENGL 1102 English Composition II 3
MATH 1552 Integral Calculus 4

Core B - Institutional Options
CS 1301 Introduction to Computing or CS 1315 Introduction to Media Computation or CS 1371 Computing for Engineers 3

Core C - Humanities
Any HUM (http://www.catalog.gatech.edu/academics/undergraduate/core-curriculum/core-area-c) 6

Core D - Science, Math, & Technology
PHYS 2211 Introductory Physics I 4
PHYS 2212 Introductory Physics II 4
MATH 1551 Differential Calculus 2
MATH 1553 Introduction to Linear Algebra 2

Core E - Social Sciences
Select one of the following: 3
HIST 2111 The United States to 1877

Major Requirements
CHEM 1211K Chemical Principles I 4
CHEM 1212K Chemical Principles II 4
CHEM 2380 Synthesis Laboratory I 2
MATH 2551 Multivariable Calculus 4
BIOL 1510 Biological Principles 4

Research Experience 2
COOP 4000 Co-op Work Assignment 3
CHEM 4694 Intern Assistantship (Undergraduate Internship for Pay) 3
CHEM 4695 Undergraduate Internship (Undergraduate Internship for Academic Credit) 3
CHEM 4698 Undergraduate Research Assistantship 3
CHEM 4699 Undergraduate Research 3
INTN 4000 Professional Internship 3
CHEM 3511 Biochemistry, Survey of Biochemistry or CHEM 451 Biochemistry I or CHEM 452 Biochemistry II 3
CHEM 4000 or 6000-level 1 3

Business Option
ACCT 2101 Accounting II: Financial Accounting or MGT 300 Accounting for Decision Making 3
MGT 3101 Organizational Behavior or MGT 315 Principles of Management or PSYC 222 Industrial/Organizational Psychology 3

Select two of the following: 6
MGT 3062 Financial Management 3
MGT 3078 Finance and Investments 3
MGT 3300 Marketing Management, Marketing I 3
MGT 3660 International Business 3
MGT 4015 Advanced Managerial Accounting 3
MGT 4026 Financial Reporting and Analysis I 3

Bachelor of Science in Chemistry - Business Option
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MGT 4028  Financial Analysis and Reporting of Technology Firms
MGT 4030  International Accounting
MGT 4190  Strategic Quality Management and Competitiveness
MGT 4191  The Entrepreneurship Forum
MGT 4192  Impact Speaker Series Forum
MGT 4193  Servant Leadership, Values & Systems
MGT 4194  Social Enterprise and Entrepreneurship
MGT 4303  Personal Selling and Sales Management
MGT 4304  Strategic Brand Management
MGT 4307  Strategic Marketing
MGT 4335  International Marketing
MGT 4610  Law, Management, and Economics
MGT 4670  Entrepreneurship

Free Electives
Free Electives  10
Total Credit Hours  122

Pass-fail only allowed for Free Electives.

1  CHEM 4699 not allowed.
2  If CHEM 4694, CHEM 4698, COOP 4000, or INTN 4000 are selected, then 3 hours of free electives must be taken.

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 a supervised research experience with a faculty member in chemistry or 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).

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 participate in the Research Option in the School of Chemistry and Biochemistry, students should find 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>LMC 4701</td>
<td>Undergraduate Research Proposal Writing (complete during the first or second semester of research)</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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</tbody>
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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 research careers in industrial or governmental laboratories.