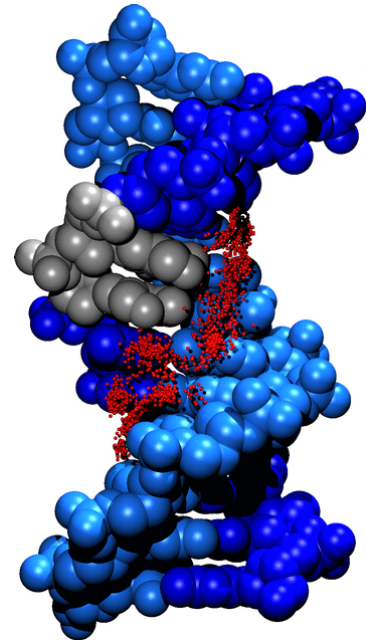




# Georgia Tech

## B.S. in Biochemistry

- Fulfills course subject matter requirements in preparation for admission into *medical, dental, pharmacy, and law schools*.
- Curriculum meets recommendation of the *American Society for Biochemistry and Molecular Biology*.
- *Excellent career opportunities:* government (health, food, medicine and forensics); industry (biotech, pharmaceuticals); academic (research, teaching)



**Biochemistry is** ..... The study of the molecular basis for life; the structure and function of cellular components such as proteins, carbohydrates, lipids and nucleic acids. It provides an understanding of the origin, detection and treatment of disease; insight into genetics; and opportunities to harness the power of biology in new fields (biofuels, biomaterials, nanomedicine, etc).

The curriculum includes a balanced schedule of **chemistry**, **biology** and **biochemistry** courses

|                 |   |   |
|-----------------|---|---|
| <b>1ST YEAR</b> | <b>CHEM 1310-General Chemistry (4)</b><br>MATH 1501-Calculus I (4)<br>ENGL 1101-Eng. Comp I (3)<br>CS 1301 or CS 1371 or 1315-Intro. Computing (3)<br>HPS 1040/1062/1062/1064-Wellness (2)  | <b>CHEM 1311-Inorg. Chemistry I (3)</b><br><b>CHEM 1312-Inorg. Chem Lab (1)</b><br>MATH 1502-Calculus II (4)<br>ENGL 1102-Eng. Comp. II (3)<br><b>BIOL 1510-Biol. Prin.</b><br><b>or BIOL 1520-Biol. Prin. (4)</b>              |
| <b>2ND YEAR</b> | <b>CHEM 1313-Quant. Methods (3)</b><br><b>CHEM 2311-Organic Chemistry I (3)</b><br>MATH 2401-Calculus III (4)<br>PHYS 2211-Physics I (4)<br>HIST 2111 or 2112 or POL 1101<br>or INTA 1200 or PUBP 3000<br>or INTA 1200 (3) <sup>1,3</sup><br>Humanities Elective <sup>2</sup> (3) | <b>CHEM 2312-Organic Chem II (3)</b><br><b>CHEM 2380-Synthesis Lab (2)</b><br>PHYS 2212-Physics II (4)<br>Social Sci. Elective <sup>3</sup> (3)<br>Humanities Elective <sup>2</sup> (3)   |
| <b>3RD YEAR</b> | <b>CHEM 4511-Biochemistry I (3)</b><br><b>CHEM 3411-Physical Chemistry I (3)</b><br><b>CHEM 3371-Org. Chem. Lab (2)</b><br><b>BIOL 2344-Genetics or BIOL 3340-Cell Biology (3)</b><br>Social Sci. Elective <sup>3</sup> (3)   | <b>CHEM 4512-Biochemistry II (3)</b><br><b>CHEM 4581-Biochem. Lab I (3)</b><br><b>CHEM 4521-Biophysical (3)</b><br><b>BIOL 4668-Eukar. Mol. Genetics or BIOL 3340-Cell Biology (3)</b><br>Social Sci. Elective <sup>3</sup> (3) |
| <b>4TH YEAR</b> | <b>CHEM 4582-Biochem. Lab II (3)</b><br><b>Biology Elective<sup>5</sup> (3)</b><br>Free Electives <sup>4</sup> (8)  | <b>CHEM 4601-Seminar (2)</b><br><b>CHEM 3211-Analytical Chem. (5)</b><br>Free Electives <sup>4</sup> (6)  |

