

## ASBMB-Accredited Biochemistry Major

The ASBMB expects over 400 lab hours for certification. The student is also expected to take coursework that prepares the student for the content areas found on the certification exam. However, there is much flexibility in which upper-level BIO electives taken.

Suggested coursework:

<u>Chemistry</u>	<u>Lab hours</u>
• CHM 108 – General Chemistry I	28
• CHM 109 – General Chemistry II	42
• CHM 221 – Organic Chemistry I	42
• CHM 222 – Organic Chemistry II	42
• Choice:	
CHM 315 – Analytical Chemistry	42
or	
CHM 331 – Physical Chemistry I: Foundations	42
• CHM 341 – Biochemistry I	0
• CHM 343 – Experimental Biochemistry	56
• CHM 342 – Biochemistry II	0
• CHM 390 – Seminar	0
• One additional CHM course above the 300 level	variable
<u>Biology</u>	
• BIO 111 – Principles of Cell Biology (required for biochemistry)	28
• BIO 300 – Cell Biology (will count as a biochemistry BIO elective)	42
• BIO 451 – Molecular Biology (recommended, offered Spring odd)	56
<u>Physics</u>	
• PHY 111 or 211 – General Physics I	28
• PHY 112 or 212 – General Physics II	28
<u>Mathematics</u>	
• MAT 201 – Calculus I	0
• MAT 111 – Statistics	0
or	
MAT 203 – Multivariable Calculus	0
Total laboratory hours:	434 in above list