BS Biochemistry

Planning Sheet - Catalog Year 2012/2013

This planning sheet shows one suggested sequence in which the required courses for the biochemistry major may be taken. Many factors, including initial placement in math, chemistry and English composition, will affect your actual schedule for completion of these courses.

Freshman Year

Fall Semester

Chem 111	Principles of Chemistry I (*SAT/ACT/COMPASS scores; HS chem grade*)	4 cr
Engl 102	College Writing & Rhetoric (*prereq=Engl 101 or equiv*)	3 cr
Gen Ed Core elective	Student's choice of Humanities, Social Science, Integrated Seminar	3 cr
Math 170	Calculus I (*prereq=SAT/ACT, COMPASS or Math 143/144)* *Math 170 also requires Math 144 Trig if Math 143 was taken. COMPASS trig score of 51 or higher will also satisfy the trigonometry prerequisite for Math 170.)*	4 cr
Elective (Optional)		3 cr
		14 - 17 cr

Spring Semester

Chem 112	Principles of Chemistry II (*prereq=Chem 111*)	5 cr
Gen Ed Core elective	Student's choice of Humanities, Social Science, Integrated Seminar	3 cr
Biol 115	Cells & the Evolution of Life	4 cr
Math 175	Analytical Geometry & Calculus II *(prereq=Math 170)*	4 cr
		16 cr

Sophomore Year

Fall Semester

Chem 277/278	Organic Chem I & lab *(prereq=Chem 112)*	4 cr
Chem 253	Quantitative Analysis (*prereq=Chem 112*)	3 cr
Chem 254	Quantitative Analysis lab (pre or co -req=Chem 253)	2 cr
Phys 211/211L	Engineering Physics I (with lab; *prereq=Math 170*)	4 cr
Math 275	Analytical Geometry & Calculus III *(prereq=Math 175)*	3 cr
		16 cr

Spring Semester

Chem 372/374	Organic Chemistry II (with lab; *prereq=Chem 277*)	3 cr
Phys 212/212L	Engineering Physics II (with lab; *prereq=Phys 211; prereq/coreq=Math 175*)	4 cr
Stat 251	Statistical Methods	3 cr
Gen Ed Core elective		3 cr
Elective		3 cr
		16 cr

Junior Year

Fall Semester

Biol 310 or Gene 314 (3*14 taught in spring*)	Genetics *(prereq=Biol 115) or General Genetics (prereq=Biol 115 or MMBB 154 or permission)*	4 cr
MMBB 380	Introductory Biochemistry *(prereq=Chem 111 and 277)*	4 cr
Chem 305	Physical Chemistry I (*prereq=Chem 112 and Math 275; prereq/coreq = Phys 212/212L or 213/213L*)	3 cr
MMBB 382	Introductory Biochemistry Lab (*prereq=Chem 101 or 111 and 278; coreq = MMBB 380*)	2 cr
Elective		3 cr
		16 cr

Spring Semester

MMBB 442	Advanced Biochemistry II (*prereq=Chem 372 and MMBB 380 or Chem 305 or 306*)	3 cr
Chem 306	Physical Chemistry II (*prereq=Chem 112 and Math 275; prereq/coreq = Phys 212/212L or 213/213L*)	3 cr
MMBB elective - Biochemistry		3 cr
Gen Ed Core elective		3 cr
Elective		3 cr
		15 cr

Senior Year

Fall Semester

MMBB 400	Seminar (*prereq=permission*)	1 cr
MMBB elective - Biochemistry		3 cr
Electives		3 cr
Electives		9 cr
		16 cr

Spring Semester

MMBB 401 (Optional)	Undergraduate Research	4 cr
MMBB elective - Biochemistry		3 cr
Electives		9 cr
		16 cr

Total must equal a minimum of: 120

You must complete an average of 15 credits per semester to meet the minimum credit total in 8 semesters

Overall total for upper division credits must equal a minimum of **36 credits.**

Course offerings may change from year to year. Always check the current course catalog.