BS Microbiology

Planning Sheet - Catalog Year 2013/2014

This planning sheet shows one suggested sequence in which the required courses for the microbiology 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 160 or Math 170	Survey of Calc or Calc I (*prereq=SAT/ACT, COMPASS or Math 143; 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
MMBB 154	Introductory Microbiology (Biol 115 is an acceptable substitute)	3 cr
Electives		6 cr
		17 cr

Sophomore Year

Fall Semester

Chem 277/278	Organic Chem I & lab *(prereq=Chem 112)*	4 cr
MMBB 250/255	General Microbiology/lab (*prereq=Chem 101 or 111*)	5 cr
Phys 111 or Phys 211	General Physics I (with lab; *prereq= Math 143*) or Engineering Physics I (with lab; *prereq=Math 170*)	4 cr
Gen Ed Core elective		3 cr
		16 cr

Spring Semester

Chem 372	Organic Chemistry II (*prereq=Chem 277*)	3 cr
Engl 207 or 208 or 209 or 317	Persuasive or Personal/Exploratory or Inquiry-Based or Technical Writing (*prereq=Engl 102*)	3 cr
Phys 112 or Phys 212	General Physics II (with lab; *prereq= Phys 111*) or Engineering Physics II (with lab; *prereq=Phys 211*)	4 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
Chem 253	Quantitative Analysis (*prereq=Chem 112*)	3 cr
Chem 254	Quantitative Analysis lab (pre or co req=Chem 253)	2 cr
MMBB 380	Intro Biochem *(prereq=Chem 111 and 277)*	4 cr
Gen Ed Core elective		3 cr
Elective		3 cr
		19 cr

Spring Semester

MMBB elective - Microbiology		3 cr
MMBB elective - Molecular Biology		3 cr
Stat 251	Statistical Methods	3 cr
Gen Ed Core elective		3 cr
Elective - Science		3 cr
		15 cr

Senior Year

Fall Semester

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

Spring Semester

MMBB 440 or MMBB 401	Advanced Lab Techniques (*prereq=MMBB 250*) or Undergraduate Research	4 cr
Elective - MMBB		3 cr
Elective - Science		3 cr
Electives		6 cr
		16 cr

Total must equal a minimum of: 120 cr

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.