

BS degree in Biochemistry

4-year plan

FALL			SPRING		
Freshman					
Chem 111	Principles of Chemistry I	4	Chem 112	Principles of Chemistry II	5
Math 170	Analytic Geometry & Calculus I	4	Math 175	Calculus II	4
Eng 102	College Writing & Rhetoric	3	Core 153-199	Core Discovery (part 2 Spring)	3
Core 103-149	Core Discovery (part 1 Fall)	4	Biol 115	Cells & the Evolution of Life (F,Sp)	4
Elective	Elective	3			
Total		18			16
Sophomore					
Chem 253	Quantitative Analysis	5	Core	University Core Class (1 st in cluster)	3
Chem 277	Organic Chemistry I	3	Phys 212/212L	Engineering Physics (with lab)	4
Chem 278	Organic Chemistry Lab I	1	Chem 372	Organic Chemistry II	3
Phys 211/211L	Engineering Physics (with lab)	4	Chem 376	Organic Chemistry II Lab	2
Math 275	Calculus III	3	Eng 207 or	Persuasive Writing	3
			Eng 208 or	Personal and Exploratory Writing	
			Eng 209 or	Inquiry-Based Writing	
			Eng 317	Technical Writing	
Total		16			15
Junior					
MMBB 380	Introductory Biochemistry (F,Su)	4	MMBB442	Biochemistry II (Sp only)	3
MMBB 382	Introductory Biochemistry Lab (F only)	2	Chem 306	Physical Chemistry II (Sp only)	3
Core	University Core Class (2 nd in cluster)	3	Core	University Core Class (3rd in cluster)	3
Chem 305	Physical Chemistry I (F only)	3	Elective	Elective	3
Stat 251	Principles of Statistics	3	Elective	Elective	3
			Elective	Elective	1
Total		15			16
Senior					
MMBB 400	Seminar	1	MMBB	Biochem elective ¹	3
MMBB/Bio	Biochem elective ¹	3	MMBB 476	Biophysical Chemistry (Sp only)	3
Bio 210 or	Genetics (4 cr) (F) or General	4	Elective	General International course	3
Gene 314	Genetics (3 cr) (Sp)		Elective	Elective	3
Elective	Elective	3	Elective	Elective	3
Elective	Elective	3			
Elective	Elective	3			
Total		17			15

F = Fall, Sp = Spring, Su =summer

Total for degree= 128 (16 Cr per semester average)

¹**Biochem elective (two of the following are required):** MMBB 409 Immunology, MMBB 482 Protein Structure/Function, MMBB 485

Prokaryotic Mol Biology, MMBB 486 Plant Biochemistry, MMBB 487 Eukaryotic Mol Genetics; MMBB488 Genetic Engineering,

MMBB520 Instrumental analysis, Biol 444 Genomics, Chem 472 Drug Design, Chem 473 Intermediate Organic Chemistry

Biochemistry students also are encouraged to participate in undergraduate research (MMBB401).

Eng 102 is required of all students. English placement is based on SAT/ACT scores. Depending on scores, students may be required to take English 101 as a prerequisite.

Math 170 is required of all students. Math placement is determined by SAT/ACT scores. Depending on scores, students may be required to take Math 108 and/or Math 143 as a prerequisite.

Chem 111 is required of all students. Chemistry placement is based on SAT/ACT scores or a Chemistry placement test. Depending on scores, students may be required to take Chem 050 as a prerequisite.

*Social Science/Humanities credits must have a minimum of 6 credits in each area. (This includes Core 101/102 and Clusters/International courses)