

Biochemistry

Recommended Four-Year Plan (Fall 2017)

The recommended four-year plan is designed to provide a blueprint for students to complete their degrees within four years. Students must meet with their Major Advisor to develop a more individualized plan to complete their degree. This plan assumes that no developmental courses are required. If developmental courses are needed, students may have additional requirements to fulfill which are not listed in the plan and may extend degree completion.

NOTE: This recommended Four-Year Plan is applicable to students admitted into the major during the 2017-2018 academic year.

First Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
Gen Ed: INTD 101-First Year Seminar	4		Gen Ed: CRWT 102 – Critical Reading and Writing II	4	
BIOL 111 & BIOL 111L-Fundamentals of Biology I Lec & Lab	4+1		BIOL 112-Fundamentals of Biology II Lec	4	
CHEM 116 & CHEM116L-General Chemistry I Lec & Lab	4+1		CHEM 117 & CHEM 117L-General Chemistry II Lec & Lab	4+1	
			MATH 121-Calculus I	4	
Total:	14		Total:	17	

Second Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
Gen Ed: History 101-110	4		Gen Ed: AIID 201-Readings in Humanities	4	
CHEM 211 & CHEM 221L-Organic Chemistry I Lec & Lab	4+1		Gen Ed: Intercultural North America	4	
MATH 122-Calculus II	4		CHEM 213 & CHEM 213L-Organic Chemistry II Lec & Lab	4+1	
PHYS 116-Physics I w/ Calculus & PHYS 118L-Introductory Physics I Lab	4+1		PHYS 117-Physics II w/ Calculus & PHYS 119L-Introductory Physics II Lab	4+1	
Total:	18		Total:	18	

Third Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
Gen Ed: Topics in Arts & Humanities or Topics in Social Science	4		BIOL 332-Genetics	4	
CHEM 324 & CHEM 324L-Quantitative Chemical Analysis Lec & Lab	4+1		CHEM 350 & CHEM 350L-Physical Chemistry I Lec & Lab WI	4+1.5	
CHEM 425- Biochemistry I Lec	4		CHEM 446- Biochemistry II Lec WI	4	
Gen Ed: International Issues	4				
Total:	17		Total:	13.5	

Fourth Year					
Fall Semester	HRS	✓	Spring Semester	HRS	✓
BIOL 407 & BIOL 407L-Cell & Molecular Biology Lec & Lab WI	4+1.5		CHEM 451 & 451L-Advanced Inorganic Chemistry Lec & Lab *	4+1	
CHEM 430-Experimental Biochemistry WI	2		Elective ^{RE}	4	
Gen Ed: BADM 115-Perspectives of Business and Society or SOSC 101-Social Issues	4		Elective ^{RE}	4	
Elective ^{RE}	4		Elective ^{RE}	4	
Total:	15.5		Total:	17	

Total Credits Required: 128 credits

GPA: 2.0

***Not required BUT...**Advanced Inorganic Chemistry Lecture/Lab (CHEM 451 and 451L) and Biochemistry II Lecture (CHEM 446) ((a required course)) must be taken to be certified by the American Chemistry Society.

RE Biochemistry Program strongly recommended taking recommended electives (check list of the recommended elective courses from requirements on the major)

Biochemistry Program strongly recommends to attend TAS Research Honor courses (SRSH 301, 302, 401 and 402) during 3rd and 4th year for hands-on research experience. Students who completed all of TAS Research courses (SRSH 301, 302, 401, and 402) will graduate with TAS Research Honor Distinction. Requires prerequisite CHEM 213

WI: Writing Intensive-3 required in the major