

BIOCHEMISTRY, B.S. (CAL S)

FOUR-YEAR PLAN

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SAMPLE BIOCHEMISTRY FOUR-YEAR PLAN

Freshman

Fall	Credits	Spring	Credits
CHEM 103 or 109		4-5 CHEM 104 (if needed)	5
MATH 221		5 MATH 222	4
COMM A or Elective		3 Humanities Course	3
INTER-AG 155 or BIOCHEM 100 ¹		1 Elective	3
		13-14	15

Total Credits 28-29

Sophomore

Fall	Credits	Spring	Credits
CHEM 343		3 CHEM 344	2
ZOOLOGY/BIOLOGY/BOTANY 151 (or BIOCORE 381 & BIOCORE 382)		5 CHEM 345	3
Humanities Course		3 ZOOLOGY/BIOLOGY/BOTANY 152 (or BIOCORE 383 & BIOCORE 384)	5
Social Science Course		3 Ethnic Studies Course	3
		14	13

Total Credits 27

Junior

Fall	Credits	Spring	Credits
BIOCHEM 507 ³		3 BIOCHEM 508	3
PHYSICS 207 or 201		5 PHYSICS 208 or 202	5
Upper-Level Biology for major (or BIOCORE 485 & BIOCORE 487 if needed)		Upper-Level Biology for major (or BIOCORE 587)	
International Studies Course		3 CHEM 327	4
Electives		2-3	
		13-14	12

Total Credits 25-26

Senior

Fall	Credits	Spring	Credits
CHEM 565 or BIOCHEM 551		4 BIOCHEM 551 or CHEM 565	4
BIOCHEM 691 or 681 (if needed) ⁴		2-3 BIOCHEM 692 or 682 (if needed)	2-3

Electives or Remaining Requirements	6-10 Electives or Remaining Requirements	6-10
	12-17	12-17

Total Credits 24-34

1

First-year students interested in exploring the major can enroll in INTER-AG 155 or BIOCHEM 100.

2

BIOCORE sequence requires four lecture courses plus two lab courses. Student may also take ZOOLOGY/BIOLOGY/BOTANY 151 and ZOOLOGY/BIOLOGY/BOTANY 152 plus 6 credits of upper-level Biology instead of BIOCORE.

3

Students must take either: (1) both BIOCHEM 507 and BIOCHEM 508 or (2) BIOCHEM 501 and one additional course in Biochemistry from the 500/600-level electives.

4

Senior Thesis, independent study or work experience in laboratory are recommended, but are not required. However, a Senior Honors Thesis is required to earn Honors in the Major.