

BIOCHEMISTRY, BS (CAL S)

FOUR-YEAR PLAN

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SAMPLE BIOCHEMISTRY FOUR-YEAR PLAN

Students must complete at least 120 total credits to be eligible for graduation.

First Year

Fall	Credits Spring	Credits
CHEM 103 or 109	4-5 CHEM 104 (if needed)	5
MATH 221	5 MATH 222	4
Communications Part A	3 BIOCHEM 207 (Recommended elective)	2
BIOCHEM 100	1 Humanities Course	3
13-14		14

Second Year

Fall	Credits Spring	Credits
CHEM 343	3 CHEM 344	2
ZOOLOGY/BIOLOGY/ BOTANY 151 (or BIOCORE 381 & BIOCORE 382) ²	5 CHEM 345	3
Humanities Course	3 ZOOLOGY/BIOLOGY/ BOTANY 152 (or BIOCORE 383 & BIOCORE 384)	5
Social Science Course	3 Ethnic Studies Course Elective	3 1-3
14		14-16

Third Year

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)	
CALS International Studies Course	3 CHEM 327	4
Electives	3 Elective	3
14		15

Fourth Year

Fall	Credits Spring	Credits
CHEM 665 or BIOCHEM 551	3-4 BIOCHEM 551 or CHEM 665	3-4
BIOCHEM 691 or 681 (if needed) ⁴	2-3 BIOCHEM 692 or 682 (if needed)	2-3

Electives or Remaining Requirements	10 Electives or Remaining Requirements	10
15-17		15-17

Total Credits 114-121

- 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.