

GENETICS AND GENOMICS, BS

FOUR-YEAR PLAN

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SAMPLE GENETICS AND GENOMICS 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	5
MATH 221 (or math placement)	5 Elective	3
GENETICS 155 (CALs First Year Seminar)	1 COMM A Course (if needed)	3
Humanities	3 Ethnic Studies	3
	14	14

Second Year

Fall	Credits Spring	Credits
CHEM 343 or 341	3 CHEM 345 (if CHEM 343 completed)	3
ZOOLOGY/BIOLOGY/BOTANY 151 ¹	5 ZOOLOGY/BIOLOGY/BOTANY 152 ¹	5
STAT 371 or 301	3 GENETICS 299 (Independent Research)	1-3
Social Sciences	3 Electives	5
	14	16

Third Year

Fall	Credits Spring	Credits
PHYSICS 103, 207, or 201 ²	4-5 PHYSICS 104, 208, or 202 ²	4-5
GENETICS 467	3 GENETICS 468	3
BIOCHEM 501 or 507	3 BIOCHEM 508 (or elective)	3-4
CALS International Studies	3 Genetics Depth/Breadth	6
	14	18

Fourth Year

Fall	Credits Spring	Credits
Genetics Depth/Breadth	6 Genetics Depth/Breadth	3
Elective (research or thesis recommended) ³	2-3 Elective (research or thesis recommended) ³	2-3
Humanities	3 Genetics Capstone	3
Electives	3 Electives	6
	15	15

Total Credits 120

¹ Instead of ZOOLOGY/BIOLOGY/BOTANY 151 and ZOOLOGY/BIOLOGY/BOTANY 152, students can take either BOTANY/BIOLOGY 130, ZOOLOGY/BIOLOGY 101 & ZOOLOGY/BIOLOGY 102, or BIOCORE 381, BIOCORE 383 & two labs (BIOCORE 382, BIOCORE 384, or BIOCORE 486).

² Physics could be taken in second year (consult your advisor).

³ If in CALS honors in research.

Notes:

- First-year students are recommended to take GENETICS 155 to fulfill the CALS first year seminar requirement.
- Study abroad is an enriching experience. Check with your advisor on how you can fulfill your curriculum and study abroad.