

# GENETICS AND GENOMICS, B.S.

## FOUR-YEAR PLAN

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#### SAMPLE GENETICS AND GENOMICS FOUR YEAR PLAN

##### 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
		<b>13-14</b>	<b>14</b>

##### Second Year

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

##### Third Year

Fall	Credits	Spring	Credits
PHYSICS 103, 207, or 201 <sup>2</sup>		4-5 PHYSICS 104, 208, or 202 <sup>2</sup>	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
		<b>13-14</b>	<b>16-18</b>

##### Fourth Year

Fall	Credits	Spring	Credits
Genetics Depth/Breadth		6 Genetics Depth/Breadth	3
Elective (research or thesis recommended) <sup>3</sup>		2-3 Elective (research or thesis recommended) <sup>3</sup>	2-3
Humanities		3 Genetics Capstone	3
Electives		6 Electives	6
		<b>17-18</b>	<b>14-15</b>

##### Total Credits 115-123

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.

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