

GENETICS AND GENOMICS, B.S.

FOUR-YEAR PLAN

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SAMPLE GENETICS AND GENOMICS FOUR YEAR PLAN

Freshman

Fall	Credits	Spring	Credits
CHEM 103 or 109		4-5 CHEM 104 (or elective course)	5
MATH 221 (or math placement)		5 International Studies	3
GENETICS 155 (Freshman Seminar)		1 COMM A Course (if needed)	3
Electives (Humanities, Social Science, Ethnic Studies)		3 Electives (Humanities, Social Science, Ethnic Studies)	3
	13-14		14

Total Credits 27-28

Sophomore

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 ²	5
STAT 371 or 301		3 Electives (Humanities, Social Science, Ethnic Studies)	5
Electives (Humanities, Social Science, Ethnic Studies)		3 GENETICS 299 (Independent Research)	2
	14		15

Total Credits 29

Junior

Fall	Credits	Spring	Credits
PHYSICS 103, 207, or 201 ³		4-5 PHYSICS 104, 208, or 202 ³	4-5
GENETICS 467 or 466 (& BIOCORE 485 if applicable)		3 GENETICS 468 (or Genetics Depth elective & BIOCORE 587 if applicable)	3
BIOCHEM 501 or 507		3 BIOCHEM 508 (or elective)	3
Electives		5 Genetics Breadth/Depth	6
	15-16		16-17

Total Credits 31-33

Senior

Fall	Credits	Spring	Credits
Genetics Breadth/Depth		6 Genetics Breadth/Depth	3
Senior Thesis (681-Research) ⁴		2-3 Senior Thesis (682-Research) ⁴	2-3
Electives (Humanities, Social Sciences)		3 Genetics Capstone	3
Electives		6 Electives	6
	17-18		14-15

Total Credits 31-33

- ¹ Instead of BIOLOGY/BOTANY/ZOOLOGY 151 Introductory Biology, students can take either (BIOCORE 381 Evolution, Ecology, and Genetics & BIOCORE 382 Evolution, Ecology, and Genetics Laboratory) or (ZOOLOGY/BIOLOGY 101 Animal Biology & ZOOLOGY/BIOLOGY 102 Animal Biology Laboratory).
- ² Instead of BIOLOGY/BOTANY/ZOOLOGY 152 Introductory Biology, students can take either (BIOCORE 383 Cellular Biology & BIOCORE 384 Cellular Biology Laboratory) or BOTANY/BIOLOGY 130 General Botany.
- ³ Physics could be taken in Sophomore year (consult your advisor).
- ⁴ If in CALS Honors in Research.

Notes:

- 120 total credits required for bachelor's degree—aim for 15 credits per semester.
- Students who have not maintained a GPA of at least 2.5 by the end of their first two years, or transfer students by the end of their first year in residence, need to evaluate their major and career options with an advisor.
- Freshmen are recommended to take GENETICS 155 Freshman Seminar in Genetics, 1-credit freshman seminar course offered in the fall to fulfill the first year seminar requirement.
- Study Abroad is an enriching experience. Check with your advisor on how you can fulfill your curriculum and study abroad.
- UGA (Undergraduate Genetics Association): check out the club's website: [facebook.com/groups/UGA.UWMadison/](https://www.facebook.com/groups/UGA.UWMadison/) (<https://www.facebook.com/groups/UGA.UWMadison/>)