

Sample 4 Year Plan: Genetics

Notes: Students must have 120 credits to graduate and fulfill all area requirements. This is only a suggested outline plan. Students may choose or be forced to deviate from this plan to satisfy unmet requirements or to add a minor or double major. We strongly suggest student involvement in internships, study abroad, summer field stations, Iowa Lakeside Lab, Field Trips in Biology or research opportunities at ISU. These will enhance your program of study but may add credits or time to your degree plan.

Freshman Year

Semester 1		Semester 2	
Engl 150 --Composition I	3	U.S. Diversity course	1-3
Gen 110 -- Orientation to Genetics	0.5	Lib 160 -- Library	0.5
Biol 211 -- Princ of Biol I	3	Biol 212 -- Princ of Biol II	3
Biol 211L -- Princ Biol I Lab	1	Biol 212L -- Princ Biol II Lab	1
Chem 177--General Chem	4	Chem 178 -General Chem II	4
Chem 177L--General Chem Lab	1	Chem 178L--General Chem Lab	1
Math/Stat choice	3-4	Math/Stat choice	3-4
	15.5-16.5		13.5-16.5

Sophomore Year

Semester 3		Semester 4	
Biol 312 -- Ecology	4	Biol 313 -- Princ of Genetics	3
Chem 331-Organic Chem I	3	Biol 313L -- Lab	1
Chem 331L-Organic Chem Lab	1	Chem 332 --Organic Chem II	3
Engl 250-Composition II	3	Chem 332L-Organic Chem Lab	1
Sp Cm 212- Speech	3	Humanity Choice	3
	14	Math/Stat Choice	3-4
			14-15

Summer:
Consider Internship, Study Abroad, Field Stations

Junior Year

Semester 5		Semester 6	
Biol 314 -- Molecular Cell Bio	3	Biol 315 -- Evolution	3
Biol 314L-- Lab	1	Physics 112-- Gen Phys II	4
Physics 111-- Gen Phys I	4	Genetics Elective Course	3
Genetics Elective course	3	Ethics Course	3
English course choice (302-316)	3	Math/Stat choice	4
International Perspective	3		17
	17		

Consider Research with Faculty

Senior Year

Semester 7		Semester 8	
Gen 410—Transmission Genetics	3	Gen 411—Human Genetics	3
Social Science Choice	3	Gen 491—Genetics Seminar	1
BBMB 404 ¹ --Biochemistry	3	Computer Science Course	3
Gen 462—Evolutionary Genetics	3	BBMB 405 ² --Biochem II	3
Genetics Elective course	3	Micro 302	3
	15		13

¹ BBMB 411 or 420 may be used.

² Chem 211/L or 321 may be used.

