

Genetics - (B.S.) Requirements Prior to January 2018

*This schedule is only an example of a possible program of study. We strongly recommend taking both GENE 3000 and GENE 3200 as early in your program of study as possible.

YEAR ONE

Fall Courses	Hours	Spring Courses	Hours
ENGL 1101 English Composition I (Area I)	3	ENGL 1102 English Composition II (Area I)	3
MATH 2250 Calculus I (Area III)	4	MATH 2260 Calculus II (Area VI)	4
CHEM 1211/L Freshman Chemistry I (Area II)	4	CHEM 1212/L Freshman Chemistry II (Area II)	4
HIST 2112 American History (Area V)	3	BIOL 1107/L Principles of Biology I (Area II)	4
FYOS First Year Odyssey	1	PEDB Course	1
Total	15	Total	16

YEAR TWO

Fall Courses	Hours	Spring Courses	Hours
GENE 3200 Genetics	4	GENE 3000 Evolutionary Biology	4
BIOL 1108/L Principles of Biology II (Area VI)	4	CHEM 2212/L Modern Organic Chemistry II (Area VI)	4
PORT 1001 Elementary Portuguese (For. Language 1 st)	4	PORT 1002 Elementary Portuguese (For. Language 2 nd)	4
CHEM 2211/L Modern Organic Chemistry I (Area VI)	4	GENE 3220L Problem Solving Lab (Major Elective)	3
Total	16	Total	15

YEAR THREE

Fall Courses	Hours	Spring Courses	Hours
GENE 4200 Advanced Genetics	3	PHYS 1112/L or 1212/L Physics	4
PORT 2001 Intermediate Portuguese (For. Language 3 rd)	3	GENE 4230L Evolution Lab (Major Elective)	4
BCMB 3100 Introductory Biochemistry	4	GENE 4960 Directed Research	4
PHYS 1111/L or 1211/L Physics	4	CMLT 2400 (Multicultural and Cultural Diversity and Franklin Literature)	3
Total	14	Total	15

YEAR FOUR

Fall Courses	Hours	Spring Courses	Hours
GENE 4970 Directed Research	4	GENE 4500 Human Genetics (Major Elective)	3
PSYC 1101 Elementary Psychology (Area V)	3	ARHI 2111 Intro Art History (FA/PHIL/RELI Req.)	3
GENE 4950 Senior Seminar I	1	GENE 4950 Senior Seminar II	1
CBIO 3400 Cell Biology	4	GENE 4990 Thesis	3
POLS 1101 American Government (Area V)	3	PHIL 2030 Intro to Ethics (FA/PHIL/RELI Req.)	3
Total	15	ECON 2106 Microeconomics (General Elective)	3
		Total	16

¹Major Electives (9-12 hours)

Choose three different courses. At least one course must be from Group I. A course from Group III is not required if three courses are chosen from Group I or Group I and II.

One GENE lab course can be used as a major elective, but the same course cannot be used to satisfy a major required course. No more than four hours of directed study or independent research (e.g., 4960, 4960H, 4970H, 4980H) could be used, as a major elective, and only if the thesis option is not selected above.