

Genetics (B.S.) Sample Program of Study

*This schedule is only one example of a possible program of study. You need 121 credits to graduate. We strongly recommend taking both GENE 3000 and GENE 3200 as early in your program of study as possible. If you have AP credit in biology, we encourage you to take GENE 3000 and GENE 3200 in your first or second year. We also encourage you to spread your CORE classes throughout the 4 years of your program of study.

YEAR ONE

Fall Courses	Hours	Spring Courses	Hours
ENGL 1101 English Composition I (Core Area I)	3	ENGL 1102 English Composition II (Core Area I)	3
MATH 2250 Calculus I (Core Area III)	4	Foreign Language 2	4
CHEM 1211/L Freshman Chemistry I	4	CHEM 1212/L Freshman Chemistry II	4
Foreign Language 1	4	BIOL 1107/L Principles of Biology I (Core Area II)	4
FYOS First Year Odyssey	1	Core Area V	3
Total	16	Total	18

YEAR TWO

Fall Courses	Hours	Spring Courses	Hours
BIOL 1108/L Principles of Biology II (Area VI)	4	GENE 3200 Genetics	4
CHEM 2211/L Modern Organic Chemistry I (Area VI)	4	BCMB 3100 Introductory Biochemistry	4
STAT 3110: Statistics for Life Sciences	3	STAT 3120: Probability for Life Sciences	3
Foreign Language 3	3	Franklin College FA/PHIL/RELI Req	3
Total	14	Total	14

YEAR THREE

Fall Courses	Hours	Spring Courses	Hours
GENE 3000 Evolutionary Biology	4	PHYS 1112/L or 1212/L Physics	4
GENE 4200 Advanced Genetics	3	GENE Major Elective	3
Core Area V	3	GENE 4960 Directed Research	4
PHYS 1111/L or 1211/L Physics	4	Cultural Diversity and Franklin Multicultural Requirement	3
PEDB	1	Franklin Literature Requirement and Core Area IV	3
Total	15	Total	17

YEAR FOUR

Fall Courses	Hours	Spring Courses	Hours
GENE 4970 Directed Research	4	GENE Major Elective	3
GENE Major Elective	3	Franklin College FA/PHIL/RELI Req.	3
GENE 4950 Capstone Seminar I	1	GENE 4950 Capstone Seminar II	1
CBIO 3400 Cell Biology	4	GENE 4990 Thesis	3
Core Area V	3	General Elective	3
Total	15	General Elective	3
		Total	16

¹Major Electives (9-12 hours)

Choose three different courses. At least two courses must be from Group I. One additional course may be chosen from Group I or Group 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.