

BS in Biology with concentration in Genetics: course suggestions

This is a suggested schedule leading to degree completion in four years. When selecting advanced biology electives, note that some specialized courses are only offered every other year, while others are offered only in fall or spring. Interesting biology electives may also have prerequisites, so be sure to check and plan well in advance.

This suggested schedule does not include summer courses, but completing some general education or introductory science requirements in the summer increases flexibility in the regular academic semesters.

First Year, Fall (16 hrs)	First Year, Spring (16 hrs)
Gen 101 (1 hour) Biology 240 (3 hrs) Chemistry 201 ^a /207/208 (5 hrs) Language 1 (3-4 hrs) ^b Gen Ed requirement ^c (3 hrs)	Biology 242 (3 hrs) Biology 244 (2 hrs) Chemistry 202/209 (4 hrs) Language 2 (3-4 hrs) Gen Ed requirement (3 hrs)
Second Year, Fall (15 hrs)	Second Year, Spring (16 hrs)
Biology 329 (3 hrs) Chemistry 341/343 (5 hrs) Gen Ed requirement (3 hrs) Math 205[See year one chemistry footnote] (4 hrs)	Biology 330/331 (5 hrs) Chemistry 342/344 (5 hrs) Gen Ed requirement (3 hrs) Gen Ed requirement (3 hrs)
Third Year, Fall (13-14 hrs)	Third Year, Spring (16-17 hrs)
Biology 363 (3 hrs) Biology G/S concentration course ^d [400, 416, or 540] (3-4 hrs) Physics 221/223 or Geos 301 or 367 (4 hrs) Gen Ed requirement or Psych 301 [see Fall statistics] (3 hrs)	Biology 465 ^e (3 hrs) Biology G/S concentration course [404, 406, 415, 485, 542] (3-4 hrs) Physics 222/224 (4 hrs) or Geos 355, 357, 363 or 365 (3-4 hrs) Statistics ^f [Biology 350 or Psych 301] (3 hrs) Gen Ed requirement (3 hrs)
Fourth Year, Fall (15-17 hrs)	Fourth Year, Spring (12-15 hrs)
Biology G/S concentration course [400, 404, 406, 416, or 540] (3-4 hrs) Biology Electives ^g (4-6 hrs) Gen Ed requirement (3 hrs) Gen Ed requirement (3 hrs)	Biology G/S concentration course [404, 406, 415, 485, 542] (3-4 hrs) Gen Ed requirement (3 hrs) Biology Electives (6-8 hrs)

Other requirements you must satisfy with the selections above:

- 2 WR (writing credit) courses at the 300 level or above.
- 29 credit hours in Biology above the 300 level after completing the core courses. If you take only 3-credit biology electives you can be deficient in credits.
- 50 credit hours at or above the 300 level across the University

a A BS requirement that also fulfills a Gen Ed requirement. Depending on math background, some students will need to take Math 111 (not part of this schedule) in preparation for both Chem 201 and Math 205.

b Students with High School language experience or multilingual backgrounds should consult the Classical and Modern Languages department for information on partially or completely satisfying the language requirements through testing.

c A biology major requires courses meeting the natural sciences and mathematics Gen Ed requirements; do not put those here.

d Acceptable substitutes for Bio 400 in the Genetics concentration include 357+358 (4 credits) or 348-WR.

e Required: Bio 500 and 523 options not usually offered.

f Biology 350 is a Spring course only; taking it decreases your needed biology electives by 3 hrs. Psychology 301 satisfies the statistics requirement for the major, and can be used to satisfy a requirement for a social science of 300 level or above.

g Biology 406WR (undergraduate research) would be appropriate if you plan to do an honors project, and is also a good source of writing credit. You MUST have mentor approval, and can take a maximum of 3 hours each for 2 semesters: 6 hours total limit.