Road Map for Genetics and Genomics BS 2016–2018

**Freshman Year**

**FALL**
- BIO 311C
- CH 301
- M 408C OR M 408N
- UGS 302 OR 303
- CORE

**SPRING**
- BIO 311D
- CH 302
- CH 204
- SDS 328M (OR SECOND SEMESTER CALCULUS IF NEEDED)
- CORE

**TIPS FOR YEAR 1**
- ✔ Try the Freshman Research Initiative to find out about research.
- ✔ Take RHE 306 and VAPA as your core classes in your first year.
- ✔ CH 204 is preferred over CH 317. In FRI, select CH 204 for credit.
- ✔ Focus on completing entry-level requirements by the end of the first semester of sophomore year. txsci.net/entry-level-reqs
- ✔ Meet and work with your advisor to complete entry-level requirements.
- ✔ Pre-Health Professions? Attend a Pre-Health Professions Information Session in the Fall. Sign up for HPO info listserve to hear about events and important announcements. cns.utexas.edu/health-professions

**TIPS FOR SUMMER AFTER YEAR 1**
- ✔ Take BIO206L—required for all upper division lab courses
- ✔ Take core or BFP course(s).
- ✔ Take PHY 317K & 117M to get a head start.

**Sophomore Year**

**FALL**
- CH 320M
- PHY 317K & 117M
- BIO 325
- GENERAL ELECTIVE
- CORE

**SPRING**
- BCH369 or BCH339F*
- PHY 317L & 117N
- BIO 206L
- BIO 370
- CORE

**TIPS FOR YEAR 2**
- ✔ Continue to do research in FRI or a faculty member’s lab (BIO377).
- ✔ Consider departmental honors, cns.utexas.edu/honors/academic-distinction/departmental-honors
- ✔ Take E 316L, M, N or P, and SOC SCI as your core classes your second year. (Pre-med students take PSY 301, SOC 302 to prep for MCAT.)
- ✔ BCH 369 or *BCH 339F prepare for MCAT. If you have any question about changing to a biochemistry major, take BCH 339F. *BCH 339F is required for all upper division BCH courses, such as BCH 339N (additional pre-req of SDS 328M and CS 303E).
- ✔ BIO 325 is a prerequisite for all upper-division biology courses.
- ✔ Good option course for sophomores in the spring is: CH 320N/220NC (second organic chemistry)
- ✔ Many health professions schools (Medical, Dental, Pharmacy, and others) require CH 320N and CH 220C.
- ✔ Complete entry-level requirements and get promoted to upper-division advising center.
- ✔ Go see your new upper-division BIO advisor to be sure you are on track!
- ✔ Thinking about study abroad? Go see a Study Abroad advisor about going abroad. Then speak with your assigned advisor about how to have study abroad courses accepted for your degree. cns.utexas.edu/international-study
- ✔ Thinking about Health Professions? Go to the HPO for information and guidance. cns.utexas.edu/health-professions
- ✔ Visit CNS Career Services for information on careers in industry. cns.utexas.edu/career-services

**TIPS FOR SUMMER AFTER YEAR 2**
- ✔ Take core or BFP course(s).

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◊ option courses are either for certificate, minor, or to fulfill 12 hr. of upper-division courses

This road map is designed for 8 semesters and does not require AP credit or summer school to complete. These are only recommendations and your results may vary!
### Junior Year

#### FALL
- BIO 344 OR BIO349 OR BIO 325T
- BIO 326R OR BIO 366 OR BIO 327G OR BIO 366R OR BIO 354C OR BIO 327E
- BIO 325L
- OPTION COURSE 1
- CORE

#### SPRING
- BIO 344 or BIO349 or BIO 325T
- BIO 326R or BIO 366 or BIO 327G or BIO 366R or BIO 354C or BIO 327E
- OPTION COURSE 2
- OPTION COURSE 3
- CORE

### Tips for Year 3
- See BIO advisors to review graduation plan and discuss departmental honors.
- Visit the HPO for pre-health professions coaching on applying to professional schools.
- Visit CNS Career Services for career coaching.
- Take the MCAT or GRE if you need to.
- Continue doing research, either in your FRI stream or a faculty member’s lab (BIO 377).
- Take GOV or HIS 315K/L for your core classes in your third year.
- Good option courses for juniors are: BIO 320, BIO 326R (micro), BIO 327E (epigenetics), BIO 354C (human birth defects), BIO 366 (microbial genetics); BIO 366R (molecular genetics), BIO 350M (plant mol bio), SDS 348 (comp bio/bioinf), NEU 330 (intro neurosci), BIO 336 (tumor bio), BIO 327G (genomics), BIO 330 (virology), BIO 360K (immunology), BIO 361 (infectious disease), BIO 339 (bacterial metabolism), BIO 321G (comp bio)

### Tip for Summer After Year 3
- Take core or BFP course(s).

### Senior Year

#### FALL
- BIO 344 or BIO349 or BIO 325T
- BIO 320L OR BIO 349L
- OPTION COURSE 4
- GENERAL ELECTIVE
- GENERAL ELECTIVE
- GENERAL ELECTIVE
- CORE

#### SPRING
- BIO 321G, SDS 348 or BCH339N
- OPTION COURSE 4
- GENERAL ELECTIVE
- GENERAL ELECTIVE
- GENERAL ELECTIVE
- CORE

### Tips for Year 4
- Apply for departmental honors if appropriate.
- Visit your advisor for a degree audit and information about applying to graduate!
- Continue doing research.
- †BIO 320L OR BIO 349L is required. Note that BIO 349L is taught in fall of odd years ONLY. BIO 320L is a fall ONLY course.
- Take GOV or HIS 315K/L for your core classes your fourth year.
- Good option courses for seniors are: BIO 320, BIO 326R (micro), BIO 327E (epigenetics), BIO 366 (microbial genetics); BIO 366R (molecular genetics), BIO 350M (plant mol bio), SDS 348 (comp bio/bioinf), NEU 330 (intro neurosci), BIO 336 (tumor bio), BIO 327G (genomics), BIO 330 (virology), BIO 360K (immunology), BIO 361 (infectious disease), BIO 339 (bacterial metabolism), BIO 321G (comp bio)

### Congratulations!
You graduated!

Go to CNS Career Services Office

Check in with advisor and degree audit

CAUTION: Not all courses are offered every semester — Check with advisors!