

SUGGESTED

# Road Map for Genetics and Genomics BS 2016–2018

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!

## 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](http://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 listserv to hear about events and important announcements. [cns.utexas.edu/health-professions](http://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](http://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](http://cns.utexas.edu/international-study)
- ✓ Thinking about Health Professions? Go to the HPO for information and guidance. [cns.utexas.edu/health-professions](http://cns.utexas.edu/health-professions)
- ✓ Visit CNS Career Services for information on careers in industry. [cns.utexas.edu/career-services](http://cns.utexas.edu/career-services)

### TIPS FOR SUMMER AFTER YEAR 2

- ✓ Take core or BFP course(s).



### SELECT CORE CLASSES & MORE

PICK 1 CORE CLASS EACH SEMESTER, OR TAKE SUMMER CLASSES OR TESTS TO PLACE OUT OF THEM.

(Pre-health professions students should take English, Rhetoric/Writing, and Social/Behavioral Sciences at UT Austin or at another 4-year school.)

You will need credit for:  Two GOV classes (3 Hrs and 3 Hrs)  Soc Sci  Two HIS classes (315K and 315L)  E 316L, M, N or P  VAPA  RHE 306

IF YOU ARE COMPLETING THE BUSINESS FOUNDATIONS MINOR, YOU ALSO NEED TO TAKE:

MIS 302F  ACC 310F  FIN 320F  LEB 320F  MAN 320F  MKT 320F

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

## 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).

Go to CNS  
Career  
Services  
Office

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

Check in  
with advisor  
and degree  
audit

## Senior Year

### FALL

- ▶ BIO 344 or BIO349 or BIO 325T
- ▶ BIO 320L OR BIO 349L. ^
- ▶ OPTION COURSE 4 ◊
- ▶ GENERAL ELECTIVE
- ▶ CORE

### SPRING

- ▶ BIO 321G, SDS 348 or BCH339N\*\*
- ▶ 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!

