

Name: _____ Student ID# _____ Catalog Year: _____

This form is intended to allow you and your advisor to plan your biology curriculum. Please make sure you are using the checklist for your appropriate catalog year. Any transfer/equivalency credits must be approved by the biology department chair.

Required Biology Courses

- BIOL 172 *Molecular Biology* (3)
- BIOL 181 *Genetics* (3)
- BIOL 182 *Evolution* (2)
- BIOL 200 *Ecology* (3)
- BIOL 225 *Biostatistics* (3)
- BIOL 226 *Laboratory Methods in Biology* (2)
- BIOL 351 *Junior Seminar I* (1)
- BIOL 352 *Junior Seminar II* (1)
- BIOL 494 *Senior Seminar II* (1)

One (1) course selected from the following list:

- BIOL 483 *Senior Seminar I: Practicum* (3)
- BIOL 484 *Senior Seminar I: Research* (3)

At least one (1) course selected from the following list (which cannot also count for the 20 hours of electives listed below):

- BIOL 307 *Botany* (5)
- BIOL 310 *Field & Syst. Botany* (5)
- BIOL 313 *Adv. Microbiology* (5)
- BIOL 316 *Comparative Anatomy* (5)
- BIOL 334 *Developmental Biology* (4)
- BIOL 373 *Herpetology* (5)
- BIOL 390 *Repro. Physiology* (3)

At least twenty (20) additional biology hours selected from the following list:

- BIOL 301 *Adv. Evol. Biology* (3)
- BIOL 307 *Botany* (5)
- BIOL 308 *Immunology* (3)
- BIOL 309 *General Zoology* (5)
- BIOL 310 *Field & Syst. Botany* (5)
- BIOL 312 *Advanced Ecology* (5)
- BIOL 313 *Adv. Microbiology* (5)
- BIOL 316 *Comparative Anatomy* (5)
- BIOL 317 *Vertebrate Embryology* (5)
- BIOL 320 *Vertebrate Physiology* (5)
- BIOL 321 *Comp. Human Anatomy* (5)
- BIOL 322 *Advanced Genetics* (5)
- BIOL 324 *Cell. & Mol. Biology* (3)
- BIOL 325 *Epidemiology* (3)
- BIOL 333 *Histology* (5)
- BIOL 334 *Developmental Biol.* (4)
- BIOL 337 *Intro. to Virology* (3)
- BIOL 373 *Herpetology* (5)
- BIOL 378 *Adv. Human Physiol. I* (5)
- BIOL 379 *Adv. Human Physiol. II* (5)
- BIOL 390 *Repro. Physiology* (3)

Other Required Courses

- CHEM 238/L *Inorganic Chemistry with Laboratory* (3/2)
- CHEM 315/L *Organic Chemistry I with Laboratory* (3/2)
- CHEM 415/L *Organic Chemistry II with Laboratory* (3/2) – can be substituted with approval from biology department chair
- MATH 231 *Calculus I* (4)

One (1) course selected from the following list:

- CHEM 121 *Introductory Chemistry* (5)
- CHEM 131/L *Foundations of Chemistry with Laboratory* (3/2)

One (1) course selected from the following list:

- PHYS 201 *Principles of Physics I* (5)
- PHYS 211 *General Physics I* (5)

Semester

Courses

Professional Development

| | ① | ② | ③ | | | | |
|-------------|--------|--|---|---|---|--|--|
| First Year | Fall | BIOL 172 Molecular Biology <small>Co/Pre: CHEM 121/131</small> | CHEM 121 Introductory Chemistry <i>or</i> CHEM 131/L Found. Chem. + Lab | MATH 231 Calculus I (or math placement) <small>See catalog</small> | FUSE 101 Frontiers | Drury Fusion (if room in schedule) | Statement of Purpose Resume Template Seek Internship and Shadowing Advice Begin volunteer efforts |
| | Spring | BIOL 181 Genetics <small>BIOL 172</small> | BIOL 226 Lab. Methods in Biology <small>Co or Pre: BIOL 181</small> | CHEM 238/L Inorganic Chem. + Lab <small>Chem 121 or 131</small> | Drury Fusion | FUSE 102 Intersections | |
| Second Year | Fall | BIOL 182 Evolution <small>Co or Pre: BIOL 181</small> | BIOL 200 Ecology <small>Co or Pre: BIOL 182</small> | CHEM 315/L Organic Chem. I + Lab <small>CHEM 238</small> | PHYS 201 Principles of Physics I <small>MATH 110 or 211</small> | PHYS 211 General Physics I <small>MATH 231</small> | Internship and/or Shadowing Experiences Prepare for Research Attend Seminars Expand volunteer efforts |
| | Spring | BIOL Electives | BIOL 225 Biostatistics <small>BIOL 172</small> | CHEM 415/L Organic Chem. II + Lab <small>CHEM 315</small> | Drury Fusion | | |
| Third Year | Fall | BIOL 351 Junior Seminar I <small>BIOL 181</small> | BIOL Electives | Drury Fusion | | | Internship and/or Shadowing Experiences Complete Statement of Purpose & Resume Exam (GRE, MCAT, etc.) Identify post-graduate positions of interest Senior Seminar Proposal & Project Attend Seminars Extended volunteer & research efforts |
| | Spring | BIOL 352 Junior Seminar II <small>BIOL 351</small> | BIOL Electives | Drury Fusion | | | |
| Fourth Year | Fall | BIOL 483/4 Senior Seminar I <small>BIOL 200</small> | BIOL Electives | Drury Fusion | | | Applications to post-graduate positions Senior Seminar Project & Presentation Attend Seminars Extended volunteer & research efforts |
| | Spring | BIOL 494 Senior Seminar II <small>BIOL 483 or 484</small> | BIOL Electives | Drury Fusion | | | |

Notes

- If in Biol 110, then shift Biol 172, 181, 182, 200, 225, & 226 as needed.
- One year of intro chemistry (i.e., Chem 121/238 *or* 131/238) is required & both Chem 121 and 131 equally prepare students for Chem 238.
- If in Math 109 or 211, proceed through Math 231 prior to Phys 201 or 211.
- Biol 225 and Biol 226 can be taken in either spring. Students interested in molecular fields may want to take Biol 226 in the first year, while students interested in field biology/ecology may want to take Biol 225 first.
- If a full year of organic is not required for graduate/professional school, then other options for Chem 415/L may be possible (see Biol Chair).
- See your advisor for which physics to complete and when to complete it. A full year of physics (either Phys 201/202 *or* Phys 211/212) may be required for some grad/professional schools and most students on those paths should complete physics in the second year.

Legend

