

Name: _____ Student ID# _____ Catalog Year: _____

This form is intended to allow you and your advisor to plan your environmental 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. Remember that your curriculum is only one part of your professional development – you should work with your faculty advisor to help set up research, internship, shadowing, and volunteer opportunities throughout your tenure at Drury.

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 312 *Advanced Ecology* (5)
- BIOL 313 *Advanced Microbiology* (5) or BIOL 390 *Reproductive Physiology* (3)
- BIOL 334 *Developmental Biology* (4)
- BIOL 373 *Herpetology* (5)
- BIOL 351 *Junior Seminar I* (1)
- BIOL 352 *Junior Seminar II* (1)

One (1) option selected from the following:

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

Required Environmental Courses

- ECON 225 *Introduction to Environmental Economics* (3)
- ~~PHIL 320 *Environmental Ethics* (3)~~
- PLSC 323 *Issues in Environmental Policy* (3)

Other Required Courses

One (1) option selected from the following:

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

- CHEM 238 *Inorganic Chemistry* (3)
- CHEM 238L *Inorganic Chemistry Laboratory* (2)

Choose one of the following pairs of courses:

- CHEM 310/L *Quantitative Chemical Analysis & Laboratory* (3/2) and
- CHEM 410/L *Instrumental Analysis & Laboratory* (3/2)

or

- CHEM 315 *Organic Chemistry* (3) and
- CHEM 336 *Biochemistry* (3)

- MATH 231 *Calculus I* (4)
- PHYS 211 *General Physics I* (4)

Semester		Courses					Professional Development	
First Year	Fall	1 BIOL 172 Molecular Biology	2 CHEM 121 Introductory Chemistry	or CHEM 131/L Found. Chem. + Lab	3 MATH 231 Calculus I (or math placement) See catalog	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 BIOL 172	BIOL 225 Biostatistics BIOL 172	CHEM 238/L Inorganic Chem. + Lab Chem 121 or 131/L	Drury Fusion	FUSE 102 Intersections		
Second Year	Fall	BIOL 182 Evolution BIOL 181	BIOL 200 Ecology Co or Pre: BIOL 182	4 CHEM 310/L Analytical Chem. + Lab	or CHEM 315 Organic Chem.	5 PHYS 211 General Physics MATH 231	Drury Fusion	Internship and/or Shadowing Experiences Prepare for Research Attend Seminars Expand volunteer efforts
	Spring	BIOL Electives	BIOL 226 Lab. Methods in Biology Co or Pre: BIOL 181	CHEM 410/L Analytical Chem. + Lab	CHEM 336 Biochemistry	PLSC 323 Issues Environ. Policy	Drury Fusion	
Third Year	Fall	BIOL 351 Junior Seminar I BIOL 181	BIOL Electives	ECON 225 Intro. Environ. Economics	Drury Fusion			Internship and/or Shadowing Experiences Complete Statement of Purpose & Resume Exam (GRE, etc.) Identify post-graduate positions of interest Senior Seminar Proposal & Project Attend Seminars Extended volunteer & research efforts
	Spring	BIOL 352 Junior Seminar II BIOL 351	BIOL Electives	PHIL 320 Environmental Ethics	Drury Fusion			
Fourth Year	Fall	BIOL 483/4 Senior Seminar I BIOL 200	BIOL Electives	Drury Fusion				Applications to post-graduate positions Senior Seminar Project & Presentation Attend Seminars Extended volunteer & research efforts
	Spring	BIOL Electives	Drury Fusion					

Notes

1. If in Biol 110, then shift Biol 172, 181, 182, 200, 225 & 226 as needed.
2. One year of intro chemistry (i.e., Chem 121/238 *or* 131/238) is typically required for graduate schools in environmental biology-related areas.
3. If in Math 109 or 211, proceed through Math 231 prior to Phys 211.
4. Choose courses here – Chem 310/410 *or* Chem 315/336 – based on interest in specific fields (e.g., water, soil, air chemistry *or* organic pollutants, eco-estrogens).
5. If interested in hydrology or a related field, then a second semester of physics (i.e., Phys 212) is recommended.

Legend

