

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 351 *Junior Seminar I* (1)
- BIOL 352 *Junior Seminar II* (1)
- BIOL 484 *Senior Seminar I: Research* (3)

At least three (3) courses selected from the following list:

- BIOL 307 *Botany* (5)
- BIOL 309 *General Zoology* (5)
- BIOL 310 *Field & Syst. Botany* (5)
- BIOL 313 *Adv. Microbiology* (5)
- BIOL 373 *Herpetology* (5)

Required Environmental Courses

- ECON 225 *Introduction to Environmental Economics* (3)
- PHYS 210 *Intro to Geographic Information Systems (GIS)* (3)
- PLSC 309 *Global Environmental Politics* (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 312 *Organic Chemistry Reactions* (3) and
- CHEM 336 *Biochemistry* (3)

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

Recommended

- PHIL 320 *Environmental Ethics* (3)

Semester		Courses					Professional Development	
First Year	Fall	1 BIOL 172 Molecular Biology	CHEM 121 Introductory Chemistry	2 CHEM 131/L Found. Chem. + Lab	3 MATH 231 Calculus I (or math placement) <small>See catalog</small>	FUSE 101 Frontiers	Drury Fusion <small>(if room in schedule)</small>	Statement of Purpose Resume Template Seek Internship and Shadowing Advice Begin volunteer efforts
	Spring	BIOL 181 Genetics <small>BIOL 172</small>	BIOL 225 Biostatistics <small>BIOL 172</small>	CHEM 238/L Inorganic Chem. + Lab <small>Chem 121 or 131/L</small>	Drury Fusion	FUSE 102 Intersections		
Second Year	Fall	BIOL 182 Evolution <small>BIOL 181</small>	BIOL 200 Ecology <small>Co or Pre: BIOL 182</small>	4 CHEM 310/L Analytical Chem. + Lab	CHEM 312 Organic Chem. Reactions	5 PHYS 211 General Physics <small>MATH 231</small>	Drury Fusion	Internship and/or Shadowing Experiences Prepare for Research Attend Seminars Expand volunteer efforts
	Spring	BIOL Electives	BIOL 226 Lab. Methods in Biology <small>Co or Pre: BIOL 181</small>	CHEM 410/L Analytical Chem. + Lab	CHEM 336 Biochemistry	PLSC 309 Global Environ. Politics	Drury Fusion	
Third Year	Fall	BIOL 351 Junior Seminar I <small>BIOL 181</small>	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 <small>BIOL 351</small>	BIOL Electives	PHIL 320 Environmental Ethics	Drury Fusion			
Fourth Year	Fall	BIOL 484 Senior Seminar I: Research <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 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 typically required for graduate schools in environmental biology-related areas.
- If in Math 109 or 211, proceed through Math 231 prior to Phys 211.
- Choose courses here – Chem 310/410 *or* Chem 312/336 – based on interest in specific fields (e.g., water, soil, air chemistry *or* organic pollutants, eco-estrogens). Chem 315 may substitute for Chem 312.
- If interested in hydrology or a related field, then a second semester of physics (i.e., Phys 212) is recommended.

