

Major Progress Tracker: **Ecology & Evolution** (2/20)

BIOSC #	Cr	Grade	Notes
005X Foundations Bio Lab 1	1		
006X Foundations Bio Lab 2	1		
0150 Foundations Bio 1 (UHC 0715)	3		
0160 Foundations Bio 2 (UHC 0716)	3		
0350 Genetics	3		
0370 Ecology	3		
1130 Evolution	3		
0390 Ecology Lab (F) or 1131 Evolution Lab (F)	1		
1120 Biostatistics (F)	3		
(Field Course*)	3		
(E&E Elective*)	3		
(E&E Elective*)	3		
0391 • 1551# (WRIT)	1		
1550 Sr Seminar Eco/Ev (Sp)	1		
TOTAL			

BIOSC must total **32 Credits**

♦ Taking BIOSC 0370/0390 at Pymatuning does not satisfy the field course requirement. **See back for details.**

* See back for list of approved E&E electives.

choose one BIOSC WRIT Practicum, see back for details

General Education Requirements

Wrkshp Comp _____ Sem in Comp _____

Writ #1 _____ Writ #2 _____ (in BIOSC)

Algebra _____ Quant Formal Reas. _____

2nd Language _____

Diversity Course _____

The Diversity course may be used to fulfill another General Education Requirement.

Division Requirements (Humanities, Arts, Social Sciences, Natural Sciences)

Literature _____

The Arts _____

Creative Work _____

Philosophical Thinking/Ethics _____

Social Science _____

Historical Analysis _____

Natural Sciences *Fulfilled by Major*

Global Awareness & Cultural Understanding

Global Issues _____

Geographic Region _____

Cross-Cultural Awareness _____

CO-REQUISITES for major tracks:

Track 1: CHEMIPHYSICAL

Track 2: QUANTITATIVE

Track 3: ENVIRONMENTAL

MATH #	Cr	Grade	Notes
0220 Calc 1	4		
STAT 1000	4		
CHEM #	Cr	Grade	Notes
0110 Gen Chem 1	4		
0120 Gen Chem 2	4		
0310 Org Chem 1	3		
0320 Org Chem 2	3		
0345 Organic Lab	2		
PHYS #	Cr	Grade	Notes
0110 Phys 1 (alg) or	3		
0174 Phys 1 (calc)	4		
0111 Phys 2 (alg) or	3		
0175 Phys 2 (calc)	4		

MATH #	Cr	Grade	Notes
0220 Calc 1	4		
0230 Calc 2	4		
CHEM #	Cr	Grade	Notes
0110 Gen Chem 1	4		
0120 Gen Chem 2	4		
STAT #	Cr	Grade	Notes
1000 Appl Statistics	4		
1221% Appl Regress	3		Sp
1261 Data Science	3		F
1301 Stat Packages	3		F, Sp

% STAT 1000 needs to be B- to enroll

MATH #	Cr	Grade	Notes
0220 Calc 1	4		
STAT 1000	4		
CHEM #	Cr	Grade	Notes
0110 Gen Chem 1	4		
0120 Gen Chem 2	4		
GEOL #	Cr	Grade	Notes
0055 Geology Lab	2		F, Sp
0820 Nat Disast or	3		Sp
0840 Environ Sci	3		F, Sp
1030 Atm,Ocn,Clim	3		F, Sp
1445 GIS, GPS	3		F, Sm
1516 Env Geochem	4		F, Sp

Notes about Grades:

You must earn a grade of 'C' or better (not 'C-') in your 32 credits of Biology courses for the E&E major.
You must average a 2.000 GPA in your chosen track of co-requisite courses.

****See back for additional details.****

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Approved E&E electives for the major:

Fall			Spring		
BIOSC #	Course Name	Cr	BIOSC #	Course Name	Cr
1000	Biochemistry	3	1000	Biochemistry	3
1200	Vertebrate Morphology	3	1275	Genomics	3
1320	Population Biology	3	1435	Environmental Phys of Animals	3
1350	Plant Biology (F odd)	3	1440	Animal Behavior	3
1375	Tropical Biology (F even)	3	1520	Developmental Biology	3
1540	Computational Biology	3	1850	Microbiology	3
1850	Microbiology	3			

Student may also take, the following to count as E&E elective credits for the major:

- Additional PLE field courses (see below).
- Up to 6 credits of ANTH 1601 (Structure and Function), ANTH 1603 (Human Origins), ANTH 1605 (Primate Anatomy).
- Appropriate graduate courses with departmental and instructor permission.

Approved Field Courses: Select one (more may be taken as elective credits)

Pymatuning Laboratory of Ecology – Summer

Alternative Options

BIOSC #	Course Name	Credits	BIOSC #	Course Name	Credits
1040	Aquatic Ecosystem	3	1200	Tropical Forest Ecology <i>Pitt in Ecuador (July)</i>	3
1140	Behavioral Ecology	3			
1160	Forest Ecology	3			
1170	Freshwater Ecology	3	1221	Urban Ecological Field Studies <i>On-campus (Fall only)</i> <i>Must pair with 3rd E&E elective to fulfill field course requirement.</i>	1
1180	Ecology of Amphibians & Reptiles	3			
1190	Aquatic Entomology	3			
1230	Ornithology	3			
1260	Aquatic Botany	3			
1270	Ecology of Fish	3			
1300	Vertebrate Community Ecology	3			
1310	Wetland Ecology & Management	3			
1330	Field Botany	3			
1340	Field Entomology	3			
1360	Ecology of Fungi	3			
1390	Field Techniques in Eco & Conserv	3			
1400	Disease Ecology	3			
1410	Vertebrate Ecology	3			
1420	Wildlife Management	3			
1430	Ecophysiology	3			
1600	Stream Ecology	3			
1610	Conservation Biology	3			

Ecology & Evolution WRIT Practica Courses

Select one (either satisfies the WRIT Requirement for E&E Majors when taken along with the lab or seminar):

BIOSC #	Course Name	Credit
0391	Ecology Lab Writ Practicum (F)	1
1551	Eco & Evo Seminar Writ Practicum (Sp)	1

For more info on PLE: biology.pitt.edu/facilities/pymatuning

Grade and GPA Requirements:

- You must have a grade of "C" or better in your 32 credits of Biology courses** for the major. However, a C-, D+, D, D- can count towards your total 120 credits for the bachelor's degree, and is averaged into your BIOSC GPA.
- AND an overall BIOSC GPA (32 plus any extra BIOSC credits) of 2.000 or better.**
- AND your corequisite GPA must average to 2.000 or better.** [Thus, a grade lower than C in the co-reqs can be used if the co-req GPA still averages to 2.000. See **exceptions** below.]
 - **Exceptions:**
 - Students must earn a grade of C or better in CHEM 0110 and CHEM 0120 for the major.
 - Students must earn a grade of C or better in PHYS 0110/0174 to enroll in PHYS 0111/0175.
 - Students must earn a grade of C or better in MATH 0220 to enroll in MATH 0230.
 - Students must earn a grade of B- or better in STAT 1000 to enroll in STAT 1221.