REVISED E&E STARTING FALL 2020

Major Progress Tracker: **Ecology & Evolution**

****Gen Eds For Students Admitted BEFORE Fall 2018****

Name		**PS #**		**Date**	
TARGET GRADUATION DATE:					

BIOSC COURSES

You must earn a grade of C or better (not C-) in your 32 credits of Biology courses

BIOSC Core Courses	**Cr**	**Grade**	**Notes**
005X Foundations Bio Lab 1	1		
006X Foundations Bio Lab 2	1		
0150 Foundations Bio 1 (UHC0155)	3		
0160 Foundations Bio 2 (UHC0165)	3		
0350 Genetics	3		
0370 Ecology♦	3		
1130 Evolution	3		
0390 Ecology Lab (F)	1		
1120 Biostatistics (F)	3		
E&E Electives	**Cr**	**Grade**	**Notes**
(Field Course♦)	3		
(E&E Elective)*	3		
(E&E Elective)*	3		
0391 OR 1551# (WRIT)	1		
1550 Sr Seminar Eco/Ev (Sp)	1		
TOTAL	**32**		

♦ Taking BIOSC 0370/0390 at Pymatuning does not satisfy the field course requirement. ***See back for approved field courses.***
** See back for list of approved E&E electives.*
 # choose one BIOSC WRIT Practicum, see p.2 for details

Foundational Skills Requirements

Wrkshp Comp _____ Sem in Comp _____

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

Algebra _____ Formal Reas. _____

General Education Requirements

Literature_____

The Arts _____

2nd Lit/Arts or CEX _____

Philosophy _____

Social Science_____

Historical Change _____

Natural Sciences *Fulfilled by Major*

2nd Language_____

Int'l Foreign Culture 1 _____

Int'l Foreign Culture 2 _____

Int'l Foreign Culture 3 _____

Non-Western Culture _____

Any Non-Western Culture course fills 2 Disciplinary Approach requirements - itself and one other.

120 TOTAL credits required for degree	**Date**	**Co-req GPA**	**BIOSC GPA**
See p.2 for GPA calculation details			

CO-REQUISITES FOR MAJOR TRACKS

You must average a 2.000 GPA in your chosen track of co-requisite courses.

Track 1: CHEMIPHYSICAL

MATH	**Cr**	**Grade**	**Notes**
MATH 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		
0345/0745 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		

Track 2: QUANTITATIVE

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 pre-req = B-
**MATH 0235 = MATH 0220 + 0230*

Track 3: ENVIRONMENTAL

MATH	**Cr**	**Grade**	**Notes**
MATH 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

Major Progress Tracker: **Ecology & Evolution**

Approved E&E electives for the major:

Fall		
BIOSC #	*Course Name*	*Cr*
1000	Biochemistry	3
1200	Vertebrate Morphology	3
1320	Population Biology	3
1350	Plant Biology (F odd)	3
1375	Tropical Biology (F even)	3
1540	Computational Biology	3
1850	Microbiology	3

Spring		
BIOSC #	*Course Name*	*Cr*
1000	Biochemistry	3
1275	Genomics	3
1435	Environmental Phys of Animals	3
1440	Animal Behavior	3
1520	Developmental Biology	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 (additional field courses may be taken for elective credits)*

Pymatuning Laboratory of Ecology – Summer

BIOSC #	*Course Name*	*Credits*
1140	Behavioral Ecology	3
1160	Forest Ecology	3
1170	Freshwater Ecology	3
1180	Ecology of Amphibians & Reptiles	3
1190	Aquatic Entomology	3
1220	Ecological Field Studies	3
1230	Ornithology	3
1260	Aquatic Botany	3
1270	Ecology of Fish	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
1420	Wildlife Management	3
1600	Stream Ecology	3
1610	Conservation Biology	3

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

Alternative Option

BIOSC #	*Course Name*	*Credits*
1221	Urban Ecological Field Studies *On-campus (Fall only)*	1

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

Grade and GPA Requirements:

a) **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.

b) **AND** an overall BIOSC GPA (32 plus any extra BIOSC credits) of 2.000 or better.

c) **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**:
  - i. Students must earn a grade of C or better in CHEM 0110 and CHEM 0120 for the major.
  - ii. Students must earn a grade of C or better in PHYS 0110/0174 to enroll in PHYS 0111/0175.
  - iii. Students must earn a grade of C or better in MATH 0220 to enroll in MATH 0230.
  - iv. Students must earn a grade of B- or better in STAT 1000 to enroll in STAT 1221.

Calculating your GPA - The Bio advisors have a GPA calculator spreadsheet – ask and we'll send it to you.

OR for instructions and download a spreadsheet, go to: asundergrad.pitt.edu/personalized-advising/gpa-calculator