

This is a planning aid only! See your Academic Advisor for complete information.

Ecology (SBE) Option

New 7.07; revised 8.08

Grade	Course	Credit Hours	Title
Biology required courses (25 credits)			
	BIOL 101	4	Intro to Biology 1
	BIOL 102	4	Intro to Biology 2
	BIOL 107	1	Biol Freshman Experience
	BIOL 243	4	Intro Cell Biology
	BIOL 244	3	Genetics
	BIOL 244L	1	Genetics Lab
	BIOL 333	4	Ecology
	BIOL 428	1	Senior Seminar
Biology Elective Core Courses (choose 1; 4 credits)			
	BIOL 316	4	Basic Microbiology
	BIOL 357	4	Intro Animal Physiology
Biology¹ Electives (16 credits)			

¹ Biology electives must be 300 level or above. BIOL 330 and BIOL 339 are not considered biology electives for this option. See bottom of next page for recommended biology courses for this option.

Chemistry (19 credits)			
	CHM 115	4	Gen Chemistry 1
	CHM 116	4	Gen Chemistry 2
	CHM 255	3	Organic Chemistry 1
	CHM 255L	1	Organic Chemistry Lab 1
	CHM 256	3	Organic Chemistry 2
	CHM 256L	1	Organic Chemistry Lab 2
	CHM 324 or CHM 333	3	Environmental Chemistry Principles of Biochemistry

Physics (8 credits)			
	PHYS 220	4	Gen Physics 1
	PHYS 221	4	Gen Physics 2

Mathematics²/Computer (minimum 12 credits)			
	MA 223	3	Intro Analysis 1 (Calculus)
	MA 224	3	Intro Analysis 2 (Calculus)
	BIOL 330 or STAT 301	3	Biostatistics Elem Stat Method
	Any CS, CIS or ITS	3	CS 342 or CIS 204 or 304 encouraged

² MA 163 and 164 Calculus I and II are geared towards engineering students. They may be used to replace MA 223 and 224

Grade	Course	Credit Hours	Title
English³/Communication (6-13 credits)			
	ENGL 100 ⁴	4	English Composition
	ENGL 104	3	English Composition 1
	ENGL 105	3	English Composition 2
	or ENGL 108	3	Accelerated 1 st Yr Composition (replaces ENGL100/104/105)
	COM 114	3	Fndmntls of Speech Comm.

³ Based on placement evaluation, students may be placed in ENGL 100, 104 or 108.

⁴ With an A or B grade in ENGL 100, student can progress on to ENGL 105 without taking ENGL 104.

Humanities/Social Science Electives (min. 3 credits from each category 15 credits total -see back)⁵			

⁵ Recommended courses: NRES 202, POL 223, HIST 562, and ECON 311.

Free Electives (15-21 credits) can be used for minor study area			

Preparatory Courses (0-12 Credits)			
<i>Based on placement evaluation, students may be placed in the following courses before taking CHM 115 and/or MA 223</i>			
	CHM 100	3	Prep for Gen Chemistry
	MA 021 ⁶	0	Beginning Algebra
	MA 115	3	Intermediate Algebra
	MA 153	3	Algebra & Trig 1
	MA 154	3	Algebra & Trig 2
	or MA 159	5	Pre-Calculus (replaces MA 153/154)

⁶ Courses with course numbers below 100 do not count toward your degree. However, these courses will count toward full-time status.

Graduation Checklist:

- ___ **124 credits completed (not including course below 100 level or any F grades)**
- ___ **C grade or higher in BIOL 101/102 and C average in all biology core courses**
- ___ **C average overall for all biology courses**
- ___ **32 credit at the 300 level and above at PUC**

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Ecology Option

EMS Freshman Advisor

Ms. Diane Trgovcich-Zacok, Gyte 181C, 219.989.4116,

zacok@calumet.purdue.edu

Biological Sciences Advisors

Dr. Curtis Creighton, Gyte 288, 219.989.2617, creightoc@calumet.purdue.edu

Dr. Young Choi, Gyte 292, 219.989.2325, ydchoi@calumet.purdue.edu

SAMPLE Plan of Study

- ✓ The following sample plan of study may or may not apply to you. Please consult your advisor for an individual plan.
- ✓ **You must see your advisor to obtain your PIN each semester before registering for courses.**
- ✓ Please read the **PUC academic catalog** for full details of graduation requirements. The academic catalog is available online at <http://www.calumet.purdue.edu/catalog/>

Fall Semester		Spring Semester		May/Summer Semester	
BIOL 107	(1)	BIOL 102	(4)		
BIOL 101	(4)	CHM 116	(4)		
CHM 115	(4)	MA 224 or Prep course	(3)		
MA 223 or Prep course	(3)	ENGL 105	(3)		
<u>ENGL 100 or 104</u>	<u>(4 or 3)</u>	<u>HUMANITIES/SOC SCI Elective</u>	<u>(3)</u>		
Total semester credits	15-16	Total semester credits	17		
BIOL 243 or 244/244L	(4)	BIOL 244/244L or 243	(4)		
CHM 255/255L	(4)	CHM 256/256L	(4)		
COM 114	(3)	Computer Elective	(3)		
HUMANITIES/SOC SCI Elective	(3)	HUMANITIES/SOC SCI Elective	(3)		
<u>Free Electives</u>	<u>(1-3)</u>	<u>Free Electives</u>	<u>(1-3)</u>		
Total semester credits	15-17	Total semester credits	15-17		
BIOL 333	(4)	BIOL 316 or BIOL Elective	(3-4)		
BIOL Elective(s)	(3-4)	BIOL 330	(4)		
PHYS 220	(4)	CHM 333	(3)		
HUMANITIES/SOC SCI Elective	(3)	PHYS 221	(4)		
<u>Free Elective</u>	<u>(1-3)</u>	<u>HUMANITIES/SOC SCI Elective</u>	<u>(3)</u>		
Total semester credits	15-18	Total semester credits	17-18		
BIOL 357 or BIOL Elective	(3-4)	BIOL 428	(1)		
<u>BIOL and Free Electives</u>	<u>(12-14)</u>	<u>BIOL and Free Electives</u>	<u>(14-16)</u>		
Total semester credits	15-18	Total semester credits	15-17		

Humanities and Social Science Credit Requirements: Minimum 3 credits should be in Humanities (philosophy, literature, history, music or creative arts classes) **AND** a minimum 3 credits in any Social Sciences (economics, political science, psychology, or sociology classes). Remaining credits can be from any Humanities/Social Science department

Recommended Ecology Elective Courses

BIOL 316 Basic Microbiology
 BIOL 357 Animal Physiology
 BIOL 383 Conservation Biology
 BIOL 477 Phycology
 BIOL 507 Molecular Biology

BIOL 508 Recombinant DNA Tech
 BIOL 580 Evolution
 BIOL 587 Biogeography
 BIOL 588 Plant Ecology
 BIOL 589 Lab in Plant Ecology

BIOL 591 Field Ecology
 BIOL 593 Ethology
 BIOL 595 Ornithology
 BIOL 595 Environmental Microbiology
 BIOL 595 Independent Study/Research Project