

Biology Major (SBY) Plan of Study

Updated 7.07; 8.08

Grade	Course	Credit Hours	Title
Biology Basic Core Courses (18 credits)			
	BIOL 107	1	Biol Freshman Experience
	BIOL 101	4	Intro to Biology 1
	BIOL 102	4	Intro to Biology 2
	BIOL 243	4	Intro Cell Biology
	BIOL 244	3	Genetics
	BIOL 244L	1	Genetics Lab
	BIOL 428	1	Senior Seminar
Biology Elective Core Courses – choose 2 (8 credits)			
	BIOL 316	4	Basic Microbiology
	BIOL 333	4	Ecology
	BIOL 357	4	Intro Animal Physiology
Biology Electives (minimum 12 credits) 300 level or above (except BIOL 330 and BIOL 339)			
Chemistry (minimum 19 credits)			
	CHM 115	4	Gen Chemistry 1
	CHM 116	4	Gen Chemistry 2
	CHM 255	3	Organic Chemistry
	CHM 255L	1	Organic Chemistry Lab
	CHM 256	3	Organic Chemistry 2
	CHM 256L	1	Organic Chemistry Lab 2
	CHM 333	3	Principles of Biochemistry
Physics (minimum 8 credits)			
	PHYS 220	4	Gen Physics 1
	PHYS 221	4	Gen Physics 2

Preparatory Courses (0-12 Credits)

Based on placement evaluation, students may be placed in the following courses before taking CHM 115 and/or MA 223

Grade	Course	Credit Hours	Title
	CHM 100	3	Prep for Gen Chemistry
	MA 021*	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_

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

Grade	Course	Credit Hours	Title
Mathematics/Computer (minimum 12 credits)			
	MA 223	3	Intro Analysis (Calculus)
	MA 224	3	Intro Analysis 2 (Calculus)
<i>MA 163/164 can replace MA 223/224 (see back).</i>			
	BIOL 330 or STAT 301	3	Biostatistics Elem Stat Method
	Any CS, CIS or ITS	3	CS 342 or CIS 204 or 304 encouraged
English¹/Communication required 6-9 credits			
	ENGL 100 ²	4	English Composition
	ENGL 104	3	English Composition 1
	ENGL 105	3	English Composition 2
	or ENGL 108 ³	3	Advanced English Comp
	COM 114	3	Fndmntls of Speech Comm.
¹ Based on placement evaluation, students may be placed in ENGL 100, 104 or 108. ² With an A or B grade in ENGL 100, student can progress on to ENGL 105 without taking ENGL 104. ³ ENGL 108 replaces ENGL100/ 104/105 for qualified students.			
Humanities/Social Science Electives (min. 3 credits from each category 15 credits total -see back)			
Free Electives 19-26 credits can be used for minor study area			
	CHM 100	3	Prep for Gen Chemistry
	MA 021	0	Beginning Algebra
	MA 115	3	Intermediate Algebra
	MA 153	3	Algebra and Trig 1
	MA 154	3	Algebra and Trig 2
	Or MA 159	5	Pre-Calculus *for qualified students instead of 153/154*

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

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

BIOLOGY MAJOR

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, creighto@calumet.purdue.edu
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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	Summer or Maymester
BIOL 107 (1)	ENG 105 (3)	
ENG 100 or 104 (4 or 3)	BIOL 102 (4)	
BIOL 101 (4)	CHM 116 (4)	
CHM 115 (4)	MA 224 or Prep course (3)	
MA 223 or Prep course (3)	HUMANITIES/SOC SCI Elective (3)	
Total semester credits 15-16	Total semester credits 17	
BIOL 243 (4)	BIOL 244/244L (4)	
CHM 255/255L (4)	CHM 256/256L (4)	
HUMANITIES/SOC SCI Elective (3)	HUMANITIES/SOC SCI Elective (3)	
COM 114 (3)	Computer Elective (3)	
Free Electives (1-3)	Free Electives (1-3)	
Total semester credits 15-17	Total semester credits 15-17	
BIOL 333 or 357 (4)	BIOL 316 or 333 (4)	
BIOL 330 (4)	CHM 333 (3)	
PHYS 220 (4)	PHYS 221 (4)	
HUMANITIES/SOC SCI Elective (3)	HUMANITIES/SOC SCI Elective (3)	
BIOL or Free Elective (3)	BIOL Elective (3-4)	
Total semester credits 14-17	Total semester credits 17-18	
BIOL and Free Electives (15-17)	BIOL 428 (1)	
	BIOL and Free Electives (14-16)	
Total semester credits 15-17	Total semester credits 15-17	

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