

Departmental/Program Major Courses (86-112 credits)

Required Interdisciplinary Core Courses (68-80 credits):

Required Biology Courses (7-8 credits):

- _____ (4) BIOL 11000 Fundamentals of Biology (*satisfies Science Selective for core*)
 _____ (4) BIOL 11100 Fundamental of Biology (*satisfies Science Selective for core*)
 _____ OR
 _____ (2) BIOL 12100 Biology I: Diversity, Ecology, and Behavior (*satisfies Science Selective for core*)
 _____ (3) BIOL 13100 Biology II: Development, Structure, and Function of Organisms (*satisfies Science Selective for core*)
 _____ (2) BIOL 13500 First Year Biology Laboratory (*satisfies Science Selective for core*)

Required Chemistry Courses (5-10 credits):

- (4-5) CHM 11500 General Chemistry or CHM 12500 Introduction to Chemistry I (*satisfies Science Selective for core*)
 (4-5) CHM 11600 General Chemistry or CHM 12600 Introduction to Chemistry II or CHM 13600 General Chemistry Honors (*satisfies Science Selective for core*)
 _____ OR
 (5) CHM 12901 General Chemistry with Biology Focus

Required Computing Option (3-4 credits):

- _____ (3-4) CS 15800 C Programming or CS 15900 Programming Applications for Engineers or CS 17700 Programming With Multimedia Objects or CS 18000 Problem Solving and Object-Oriented Programming

Required Earth, Atmospheric, and Planetary Science Courses (3 credits):

- _____ (3) EAPS 10000 Planet Earth or EAPS 10900 The Dynamic Earth or EAPS 11100 Physical Geology or EAPS 22100 Survey of Atmospheric Science or EAPS 22500 Science of The Atmosphere (*Select courses COULD satisfy Science Selective for core*)

Required Mathematics Courses (6-10 credits):

- _____ (3) MA 16010 Applied Calculus I (*satisfies Quantitative Reasoning for core*)
 _____ (3) MA 16020 Applied Calculus II (*satisfies Quantitative Reasoning for core*)
 _____ OR
 _____ (4-5) MA 16100 Plane Analytic Geometry And Calculus I or MA 16500 Analytic Geometry And Calculus I (*satisfies Quantitative Reasoning for core*)
 _____ (4-5) MA 16200 Plane Analytic Geometry And Calculus II or MA 16600 Analytic Geometry And Calculus II (*satisfies Quantitative Reasoning for core*)

Required Physics Selective Courses (8 credits):

- _____ (4) PHYS 22000 General Physics (*satisfies Science Selective for core*)
 _____ (4) PHYS 22100 General Physics (*satisfies Science Selective for core*)
 _____ OR
 _____ (4) PHYS 17200 Modern Mechanics (*satisfies Science Selective for core*)
 _____ (4) PHYS 27200 Electric and Magnetic Interactions or PHYS 24100 Electricity and Optics AND PHYS 25200 Electricity and Optics Laboratory (*satisfies Science Selective for core*)
 _____ OR
 _____ (4) PHYS 23300 Physics For Life Sciences I
 _____ (4) PHYS 23400 Physics For Life Sciences II

Required Statistics Courses (3 credits):

- _____ (3) STAT 35000 Introduction to Statistics or STAT 50300 Statistical Methods For Biology or STAT 51100 Statistical Methods

Required BIOLOGY Primary Area Courses (15-16 credits):

- _____ (3) BIOL 23100 Biology III: Cell Structure and Function
 _____ (2) BIOL 23200 Laboratory In Biology III: Cell Structure and Function
 _____ (3) BIOL 24100 Biology IV: Genetics And Molecular Biology
 _____ (2) BIOL 24200 Laboratory In Biology IV: Genetics and Molecular Biology
 _____ (2) BIOL 28600 Introduction To Ecology and Evolution
 _____ (3-4) BIOL 32800 Principles of Physiology OR BIOL 36700 Principles of Development and BIOL 36701 Principles of Development Lab OR BIOL 39500 Macromolecules OR BIOL 41500 Introduction to Molecular Biology OR BIOL 41600 Viruses and Viral Disease OR BIOL 42000 Eukaryotic Cell Biology OR BIOL 43600 Neurobiology OR BIOL 43800 General Microbiology

Required Supporting Area Courses (18 credits): MUST BE APPROVED BY COLLEGE

_____	()	_____
_____	()	_____
_____	()	_____
_____	()	_____
_____	()	_____
_____	()	_____
_____	()	_____

Other Departmental /Program Course Requirements (18-31)

_____	Within Major	Calculus I Option – Select from MA 16100, MA 16500 (<i>satisfies Quantitative Reasoning for core</i>) ^{CC}
_____	Within Major	Calculus II Option – Select from MA 16200, MA 16600 (<i>satisfies Quantitative Reasoning for core</i>)
_____	(3-4)	ENGL 10600 or ENGL 10800 - (<i>satisfies Written Communication and Information Literacy for core</i>)
_____	(0-4)	Language I Option* (<i>Select courses COULD satisfy Human Cultures Humanities for core</i>)
_____	(0-4)	Language II Option* (<i>Select courses COULD satisfy Human Cultures Humanities for core</i>)
_____	(0-4)	Language III/Culture/Diversity Option* (<i>Select courses COULD satisfy Human Cultures Humanities for core</i>)
_____	(3-6)	Technical Writing Option and Technical Presenting Option (<i>Select courses COULD satisfy Oral Communication for core</i>)
_____	Within Major	Laboratory Science I Option (<i>satisfies Science Selective for core</i>)
_____	Within Major	Laboratory Science II Option (<i>satisfies Science Selective for core</i>)
_____	(3)	General Education I Option (<i>Select courses COULD satisfy Human Culture Behavioral/Social Science or Humanities for core</i>)
_____	(3)	General Education II Option (<i>Select courses COULD satisfy Human Culture Behavioral/Social Science or Humanities for core</i>)
_____	(3)	General Education II Option (<i>Select courses COULD satisfy Human Culture Behavioral/Social Science or Humanities for core</i>)
_____	Within Major	STAT 35000 Introduction To Statistics
_____	Within Major	Computing Option
_____	(0-4)	Teambuilding and Collaboration Experience*
_____	(3)	Great Issues Option
_____	(0-3)	Multidisciplinary Experience* (<i>Select courses COULD satisfy Science, Technology, and Society Selective for core</i>)

*Requirement may be met with a zero credit experiential learning option. See your advisor for more information

Electives (9-34 credits)

_____	()	_____	()	_____	()	_____	()	_____
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University Core Requirements

Human Cultures Humanities	<input type="checkbox"/>	_____	Science, Technology & Society Selective	<input type="checkbox"/>	_____
Human Cultures Behavioral/Social Science	<input type="checkbox"/>	_____	Written Communication	<input type="checkbox"/>	_____
Information Literacy	<input type="checkbox"/>	_____	Oral Communication	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____	Quantitative Reasoning	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____			

The student is ultimately responsible for knowing and completing all degree requirements.

Degree Works is knowledge source for specific requirements and completion

Interdisciplinary Science – Concentration in Biology

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
3-5	Calculus Option I	Defined ALEKS score	3-5	Calculus Option II	Calculus I C- or higher
3-4	ENGL 10600/10800		3-4	Language I Option	
4-5	General Chemistry Selective I	Co-req Calc	4-5	General Chemistry Selective II or Free Elective	Varies
4	Biology Selective I		3-4	Biology Selective II	Biology I
0-1	Free Elective		0-2	Biology Selective II or Free Elective	
15-18			14-16		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	BIOL 23100	Biology Selective and CHM 11600 or equivalent	3	BIOL 24100	BIOL 23100 and CHM 11600 or equivalent
2	BIOL 23200	Co-Req BIOL 23100	2	BIOL 24200	Co-Req BIOL 24100
3-4	Language II Option	Language I	3-4	Language III/Culture/Diversity Option	See Course Info
3	Supporting Area Course		3	Supporting Area Course	
3	COM 21700 or Technical Presentation		3	General Education I Option	
0-1	Free Elective		0-1	Free Elective	
15-16			15-16		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	Supporting Area Course		2	BIOL 28600	Biology Selective I and II
3	STAT Option	Calculus II C- or higher	3	EAPS Selective Course	
3-4	Teambuilding and Collaboration Experience		3	Supporting Area Course	
3-4	Computing Option		3	General Education III Option	
3	General Education II Option		3	Technical Writing or Free Elective	
3	Free Elective		1	Free Elective	
15-16			15		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3-4	Fall Only Courses: BIOL 39500, 41500, 42000, 43600, 43800 or Free Elective	Varies	3-4	Spring Only Courses: BIOL 32800 or 36700 + 36701 or 41600 or Free Elective	Varies
3	Supporting Area Course		3	Supporting Area Course	
3	Multidisciplinary Experience		3	Great Issue Option	Jr/Sr Standing; may require COM or ENGL
4	Physics Selective I	ALEKS 85	4	Physics Selective II	Physics I
3-6	Free Elective		3	Free Elective	
15-16			16-7		

120 semester credits required for Bachelor of Science degree.

2.0 Graduation GPA required for Bachelor of Science degree.

The student is ultimately responsible for knowing and completing all degree requirements.

(Degree Works) MyPurduePlan is knowledge source for specific requirements and completion

Revised 2/2016 (effective Fall 2016)