

Program Progression Guide

Disclaimer: The [2018-2019 Purdue West Lafayette catalog](#) is considered the source for academic and programmatic requirements for students entering programs during the Fall 2018, Spring 2019, and Summer 2019 semesters. The Program Progression Guide assists students in the development of an individualized 8-semester plan. Students are encouraged to use this guide, myPurduePlan* (online degree auditing tool) and the Student Educational Planner (SEP) as they work with their academic advisor towards the completion of their degree requirements.

Notification: Each student is ultimately responsible for knowing, monitoring and completing all degree requirements.

An undergraduate degree in the College of Science requires completion of the following degree requirements.

University Degree Requirements		
Minimum 2.0 Cumulative GPA	Minimum 120 Credits that fulfill degree requirements	32 Residency Credits (30000 and above) at a Purdue University campus
University Core Curriculum**		
<ul style="list-style-type: none"> Human Cultures: Behavioral/Social Science Human Cultures: Humanities Information Literacy Oral Communication <p>University Core Curriculum Course Listing</p>	<ul style="list-style-type: none"> Quantitative Reasoning Science Science, Technology & Society Selective Written Communication 	
Required Biology Concentration		
Minimum 2.0 cumulative GPA.		
Interdisciplinary Science Core		
Detailed information regarding this requirement is found on page 3.		
Supporting Area		
This 18-credit requirement is determined by the student based on academic and career goals and must be approved.		
College of Science Core Curriculum		
<ul style="list-style-type: none"> Freshman Composition – 3 credits Technical Writing and Presentation - 3 credits Teaming & Collaboration (NC) General Education - 9 credits 	<ul style="list-style-type: none"> Foreign Language & Culture – 9 credits Great Issues - 3 credits Laboratory Science - 8 credits Multidisciplinary - 3 credits 	<ul style="list-style-type: none"> Mathematics - 6-10 credits Statistics - 3 credits Computing - 3 credits
Degree Electives		
Any Purdue or transfer course approved to meet degree requirements in accordance with individual departmental policies. Consult the No Count course list for courses, which may not be used to meet any College of Science degree requirement.		

* This audit is not your academic transcript and it is not official notification of completion of degree or certificate requirements.

** University Core Curriculum Outcomes may be met through completion of the College of Science Core curriculum. Students should consult with their academic advisors and myPurdue Plan for course selections.

2018-19 Interdisciplinary Science – Concentration in Biology Degree Progression Guide

The College of Science has *suggested* the following degree progression guide for the Interdisciplinary Science – Concentration in Biology Degree. Students will work with their academic advisors to determine their best path to degree completion. Course pre-requisites are specific to this degree plan.

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
3-5	Calculus Option I SCC-I	Defined ALEKS score	3-5	Calculus Option II SCC-I	Calculus I C- or higher
3-4	ENGL 10600/10800 SCC-A		3-4	Language I Option SCC-E	
4-5	General Chemistry Selective I SCC-G	Co-req Calc	4-5	General Chemistry Selective II or Free Elective SCC-G	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			13-20		

Credit	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 SCC-E	Language I	3-4	Language III/Culture/Diversity Option SCC-E	See Course Info
3	Supporting Area Course		3	Supporting Area Course	
3	COM 21700 or Technical Presentation SCC-B		3	General Education I Option SCC-D	
0-1	Free Elective		0-1	Free Elective	
15-16			15-16		

Credit	Fall 3rd Year	Prerequisite	Credit	Spring 3rd Year	Prerequisite
3	Supporting Area Course		2	BIOL 28600	Biology Selective I and II
3	STAT Option SCC-J	Calculus II C- or higher	3	EAPS Selective Course	
3-4	Teambuilding and Collaboration Experience SCC-C		3	Supporting Area Course	
3-4	Computing Option SCC-K		3	General Education III Option SCC-D	
3	General Education II Option SCC-D		3	Technical Writing or Free Elective	
0-1	Free Elective		1	Free Elective	
15-16			15		

Credit	Fall 4th Year	Prerequisite	Credit	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 Selective SCC-H		3	Great Issues Option SCC-F	Jr/Sr Standing; may require COM or ENGL
4	Physics Selective I	ALEKS 85	4	Physics Selective II	
3-6	Free Elective		3	Free Elective	
15-16			16-17		

College of Science Core Curriculum (SCC)

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| <ul style="list-style-type: none"> A. Freshman Composition B. Technical Writing and Presentation C. Teaming and Collaboration D. General Education E. Foreign Language and Culture F. Great Issues | <ul style="list-style-type: none"> G. Laboratory Science H. Multidisciplinary I. Mathematics J. Statistics K. Computing |
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* Consult the University Core Requirement [course list](#) for approved courses.

Science Interdisciplinary Core Requirement

Required Biology Selective Courses (7-8 credits):
BIOL 11000 Fundamentals of Biology (4) <i>(satisfies Science Selective for core)</i>
BIOL 11100 Fundamental of Biology (4) <i>(satisfies Science Selective for core)</i>
OR
BIOL 12100 Biology I: Diversity, Ecology, and Behavior (2) <i>(satisfies Science Selective for core)</i>
BIOL 13100 Biology II: Development, Structure, and Function of Organisms (3) <i>(satisfies Science Selective for core)</i>
BIOL 13500 First Year Biology Laboratory (2) <i>(satisfies Science Selective for core)</i>

Required Chemistry Selective Courses (5-10 credits):
CHM 11500 General Chemistry or CHM 12500 Introduction to Chemistry I (4-5) <i>(satisfies Science Selective for core)</i>
CHM 11600 General Chemistry or CHM 12600 Introduction to Chemistry II or CHM 13600 General Chemistry Honors (4-5) <i>(satisfies Science Selective for core)</i>
OR
CHM 12901 General Chemistry with Biology Focus (5)

Required Computer Science Selective Courses (4 credits):
CS 18000 Problem Solving and Object-Oriented Programming (4)

Required Earth, Atmospheric, and Planetary Science Selective Courses (3 credits):
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(3) <i>(Select courses COULD satisfy Science Selective for core)</i>

Required Calculus Selective Courses (8-10 credits):
MA 16100 Plane Analytic Geometry And Calculus I or MA 16500 Analytic Geometry And Calculus I (4-5) <i>(satisfies Quantitative Reasoning for core)</i>
MA 16200 Plane Analytic Geometry And Calculus II or MA 16600 Analytic Geometry And Calculus II (4-5) <i>(satisfies Quantitative Reasoning for core)</i>

Required Physics Selective Courses (8 credits):
PHYS 22000 General Physics (4) <i>(satisfies Science Selective for core)</i>
PHYS 22100 General Physics (4) <i>(satisfies Science Selective for core)</i>
OR
PHYS 17200 Modern Mechanics (4) <i>(satisfies Science Selective for core)</i>
PHYS 27200 Electric and Magnetic Interactions or PHYS 24100 Electricity and Optics AND PHYS 25200 Electricity and Optics Laboratory (4) <i>(satisfies Science Selective for core)</i>
OR
PHYS 23300 Physics For Life Sciences I (4)
PHYS 23400 Physics For Life Sciences II (4)

Required Statistics Selective Courses (3 credits):
STAT 35000 Introduction to Statistics or STAT 51100 Statistical Methods (3)