

Program Progression Guide

Disclaimer: The 2022-2023 Purdue West Lafayette catalog is considered the source for academic and programmatic requirements for students entering programs during the Fall 2022, Spring 2023, and Summer 2023 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><u>University Core Curriculum Course Listing</u></p>	<ul style="list-style-type: none"> Quantitative Reasoning Science Science, Technology & Society Selective Written Communication 	
Civic Literacy Proficiency - https://www.purdue.edu/provost/about/provostInitiatives/civics/		
Required Major Program Courses		
Minimum 2.0 cumulative GPA.		
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 <u>No Count course list</u> 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.

2022-2023 Interdisciplinary Science – Concentration in Physics Degree Progression Guide

The College of Science Department has *suggested* the following degree progression guide for the Interdisciplinary Science – Concentration in Physics Degree. Students will work with their academic advisors to determine their best path to degree completion.

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4-5	MA 16100 or MA 16500	ALEKS 85+ or SATM 670/ACTM 29 requirement	4-5	MA 16200 or MA 16600	MA 16100 or 16500
3-4	Science Core Option		4	PHYS 27200 or PHYS 24100 Electricity and Optics AND PHYS 25200	PHYS 17200
4	PHYS 17200	ALEKS 85+ or SATM 670/ACTM 29 requirement	3-4	Science Core Option	
3-4	Science Core Option		3	Free Elective	
1	Free Elective		0-1	Free Elective	
15-18			15-17		

Credit	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
4	MA 26100	MA 16200 or 16600	3	PHYS 30000+	Varies
3-4	PHYS 34200 or 34400	PHYS 27200 or 24100+25200 AND co-req MA 26100	3	Supporting Area Course	
3-4	Science Core Option		3-4	Science Core Option	
3	Supporting Area Course		3-4	Science Core Option	
3	Free Elective		3	Free Elective	
16-18			15-17		

Credit	Fall 3rd Year	Prerequisite	Credit	Spring 3rd Year	Prerequisite
3	PHYS 30000+	Varies	3-4	EAPS Selective	
3	Supporting Area Course		3	Supporting Area Course	
4-5	General Chemistry Selective I	Co-req Calc	4-5	General Chemistry Selective II or Free Elective	Varies
3	Science Core Option		3	Science Core Option	
3	Science Core Option		3	Free Elective	
16-17			16-18		

Credit	Fall 4th Year	Prerequisite	Credit	Spring 4th Year	Prerequisite
3	Science Core Option		3	Science Core Option	
3	Supporting Area Course		3	Supporting Area Course	
3	Science Core Option		3-4	Biology Selective II	Biology I
4	Biology Selective I		0-2	Biology Selective II or Free Elective	
3	Free Elective		4-6	Free Elective	
16			15-18		

Science Core Curriculum Options

(one course needed for each requirement unless otherwise noted)

Options recommended for first- and second-year students	Options recommended for third- and fourth-year students
Freshman Composition ^{UC} Foreign Language and Culture ^{UC} (3 courses needed) Computing (CS 17700 or CS 15900) /Teamwork Foreign Language and Culture ^{UC} (3 courses needed) Statistics	Technical Writing and Presentation ^{UC} (COM 217 recommended) Multidisciplinary Experience ^{UC} Great Issues General Education ^{UC} (3 courses needed)

Interdisciplinary Science Degree Requirements

University Core Requirements

The following requirements are met through completion of a student's degree requirements:

Written Communication
Oral Communication
Information Literacy
Science Selective (2)
Human Cultures Humanities
Human Cultures Behavioral/Social Science
Quantitative Reasoning
Science, Technology & Society Selective

Science Core Requirements (30-37 credits)

(3-4) Freshmen Composition
(3) COM 21700 - (satisfies Oral Communication)
(0-3) Teambuilding and Collaboration
(3) Language I
(3) Language II
(3) Language and Culture III (satisfies Human Cultures Humanities)
(3) General Education I (satisfies Human Cultures Behavioral/Social Science)
(3) General Education II
(3) General Education III
(3) Great Issues
(0-3) Multidisciplinary/Science, Technology & Society Selective

Interdisciplinary Science Core Requirements (38-48 credits)

(7-8) BIOL Selective - BIOL [11000 & 11100] or [12100 & 13100 & 13500]
(8-10) CHM Selective - CHM [11500 & 11600] or [12500 & 12600] (*satisfies Science Selectives*)
(3-4) Computer Science Selective – CS 15800, CS 15900, CS 17700, or CS 18000
(3-4) EAPS Selective - EAPS [10000, 10900/19100, or 11100] or EAPS [(22100 or 22500) and 23000]
(6-10) Calculus Selective– MA [16100 & 16200] or [16500 & 16600] or [22300 & 22400] or [MA 23100 & 23200] (*satisfies Quantitative Reasoning*)
(8-9) PHYS Selective - PHYS [17200 & (27200 or 24100/25200)] or [22000 & 22100]
(3) STAT Selective – STAT 35000, 50300, 51100

Supporting Area Requirement (18 credits)

Courses may not overlap Core or Primary Area courses but may overlap the program requirements. The Supporting Area may be built on the numerous minors available to Science students or on any coherent grouping of courses with a central unifying theme. These might include preprofessional, scientific writing, sales, forensics, technical studies, international studies, science policy, ethics, women's studies, African-American studies, etc. The possibilities are very broad but any plan must be approved by the College of Science dean or designee.

Electives (0-22 credits)

Required Primary Area (12-17 credits) – Choose one area of eight:

1. Biology (15-17 credits)

(3) BIOL 23100
(2) BIOL 23200
(3) BIOL 24100
(2) BIOL 24200
(2) BIOL 28600
(3-5) BIOL 32800, 36600, 39500 (Macromolecules) or [43800 & 43900]

2. Chemistry (16-18 credits)

(8-10) CHM [25500, 25501, 25600 & 25601] or [26505, 26300, 26605, & 26400]

(4) CHM 24100

(4) CHM 37200

3. Computer Science (16 credits)

MA 16100/16200 required in Core.

CS 18000 required in Core.

(3) CS 18200

(3) CS 24000

(4) CS 25000

(3) CS 25100

(3) CS elective at or above 30000 level

4. Earth, Atmospheric, and Planetary Science (15-16 credits)

(3-4) EAPS 11100 or equivalent OR EAPS [22100 or 22500] & 23000, whichever is not taken in the core.

(3) EAPS 11200 or any EAPS course at or above 20000 level

(3) EAPS elective at or above 200 level

(3) EAPS elective at or above 200 level

(3) EAPS elective at or above 200 level

5. Mathematics (16-17 credits)

MA 16100/16200 required in Core.

(4) MA 26100 or 27100

(3-4) MA 36600 or 26200

(3) MA 35100

(3) MA 45300, 45000, 34100, or 44000

(3) MA elective at or above 30000 level

6. Physics (13-14 credits)

MA 16100/16200 required in Core.

PHYS [17200 & (27200 or 24100/25200)] required in Core.

(4) MA 26100

(3-4) PHYS 34200 or 34400

(3) PHYS elective at or above 30000 level

(3) PHYS elective at or above 30000 level

7. Statistics (12-13 credits)

MA 16100/16200 required in Core.

(3) STAT 51200

(3) STAT 51300 or 51400

(3) STAT 22500, 31100, 41600, or 51600

(3-4) STAT [41700, 51300, or 51400]; or MA 26100

8. Environmental Biology (17 credits)

(3) BIOL 23100

(3) BIOL 24100

(2) BIOL 28600

(3) BIOL 48300

(3) BIOL 58500

(3-5) BIOL 32800, 36600, 39500 (Macromolecules), or [43800 & 43900]

**The student is ultimately responsible for knowing and completing all degree requirements.
Degree Works is knowledge source for specific requirements and completion.**