

Program Progression Guides

Disclaimer: The [2024-2025 Purdue West Lafayette catalog](#) is considered the source for academic and programmatic requirements for students entering programs during the Fall 2024, Spring 2025, and Summer 2025 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 124 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 	
Civic Literacy Proficiency - https://www.purdue.edu/provost/about/provostInitiatives/civics/		
Required Major Program Courses		
<p><i>All Professional Education courses, including Learner (Specialty) Pathway Concentration courses, must be completed with no grade lower than a C. 2.0 average in CHM courses required to graduate. 2.5 average or above in Chemistry Content courses required to graduate. 2.0 Graduation GPA required for the Bachelor of Science degree. 2.5 Overall GPA is required for the Teacher Education Program and Indiana Licensure. 2.5 Content GPA, as calculated by the Office of Teacher Education and Licensure, is required for the Teacher Education Program and Indiana Licensure. 3.0 Professional GPA is required for the Teacher Education Program and Licensure. Overall GPA in Chemistry Concentration courses with the Departmental/Program Major Courses must be ≥ 2.50. This includes all courses under the Science Education Core plus all courses in the Chemistry Concentration unless otherwise indicated.</i></p>		
College of Science Core Curriculum		
<ul style="list-style-type: none"> Written Communication Technical Writing and Presentation: 0-6 credits Computing Cultural Diversity: 0-6 credits 	<ul style="list-style-type: none"> General Education: 6 credits Great Issues in Science: 3 credits Laboratory Science Mathematics 	<ul style="list-style-type: none"> Science, Technology, and Society Statistics Team-Building and Collaboration
Degree Electives		
<p>Any Purdue or transfer course approved to meet degree requirements in accordance with individual departmental policies. The College of Science has identified courses that are below the disciplinary level of each program and major area of study. While similar, Not Recommended course lists vary between departments.</p>		

* 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.

2024-2025 Science Education - Chemistry Concentration - Degree Progression Guide

The College of Science has suggested the following degree progression guide for the Science Education – Chemistry Concentration 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
1	CHM 19400		2-3	EDCI 28500 - Multiculturalism And Education	
2-3	EDCI 20500 - Exploring Teaching As A Career		1-3	EDCI 35000 - Community Issues & Applications For Educators	
1-3	EDST 20010 - Educational Policies And Laws		4	PHYS 17200	ALEKS 85
4-5	CHM 11500 or 12500.	Calc I co-req	4-5	CHM 11600, 12600, 12901 or 13600.	CHM 12500
4-5	MA 16100 or 16500	ALEKS 85	4-5	MA 16200 or 16500	MA 16100
3	Science Core Option		3	Science Core Option	
15-17			18-20		

Credit	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
1	CHM 29400		4	CHM 24100	CHM 12600
1	EDCI/EDPS 20002 - Special Populations Seminar: English Language Learners And Students With Gifts And Talents		1	EDCI/EDPS 20001 - Special Populations Seminar: Focus On Students With Disabilities And Differentiation Approaches	
2-3	EDCI 37001 - Teaching And Learning English As A New Language		2-3	EDPS 23500 - Learning And Motivation	
1	EDPS 24800 - Differentiating Curriculum And Instruction		1	EDPS 24000 - Children With Gifts, Creativity, And Talents	
2-3	EDPS 36201 - Positive Behavioral Supports		2	EDPS 26501 - The Inclusive Classroom	
3	CHM 26100 or 26505	CHM 12600	3	CHM 26200 or 26605	CHM 26505
1-2	CHM 26300, 26500 or 26700	CHM 12600	1-3	CHM 26600, 26400 or 26800	CHM 26300
4	MA 26100 or MA 27101	Calculus II	4	PHYS 27200 or PHYS 24100 and PHYS 25200	PHYS 17200
15-17			18-19		

Credit	Fall 3rd Year	Prerequisite	Credit	Spring 3rd Year	Prerequisite
3	CHM 37300	PHYS 27200, MA 26100	3	CHM 34200	CHM 12600
1	CHM 37301		3	CHM 37400	CHM 37300
1-3	EDCI 27000 - Introduction To Educational Technology And Computing		1	CHM 37401	CHM 37301
1-3	EDCI 30900 - Reading In Middle And Secondary Schools: Methods And Problems		4	CS 17700 or CS 18000	
3	STAT 30100 or STAT 35000		2-3	EDCI 42800 - Teaching Science In The Middle And Junior High School OR EDCI 55800 - Integrated Science, Technology, Engineering And Mathematics (STEM) Education Methods-Secondary	
3	Science Core TWTP Option (COM 21700 strongly recommended)		3	Science Core General Education Option	
3	Science Core Language & Culture Option				
15			16-17		

Credit	Fall 4th Year	Prerequisite	Credit	Spring 4th Year	Prerequisite
3	EDCI 42400 - The Teaching Of Earth And Physical Science In The Secondary Schools		12	EDCI 49800	EDCI 20500, 28500 AND EDPS 23500, 26501 (C- or better)
1-3	EDPS 32700 - Classroom Assessment				
1-3	EDPS 43010 - Secondary Creating And Managing Learning Environments				
4	CHM 32100 or 32300	CHM 12600			
3	CHM 43300 or BCHM 56100 or CHM 33900	CHM 26505			
4	Science Core Great Issues Option				
16-18			12		

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
Written Communication ^{UC} Foreign Language and Culture ^{UC} (2 courses + EDCI 28500) Computing (CS 17700 or CS 15900) /Teamwork Foreign Language and Culture ^{UC} (3 courses needed)	Technical Writing and Presentation ^{UC} (COM 217 recommended) Science, Technology, and Society ^{UC} Great Issues General Education ^{UC} (2 courses + EDPS 23500)

^{UC}Select courses may also satisfy a University Core Curriculum requirement; see the University Core Requirement course list for approved courses. Students must have 32 credits at the 30000 level or above taken at Purdue.