PURDUE UNIVERSITY

# Science Education - Biology Concentration

College of Science 2025-2026

## Program Progression Guides

**Disclaimer**: The 2025-2026 Purdue West Lafayette catalog is considered the source for academic and programmatic requirements for students entering programs during the Fall 2025, Spring 2026, and Summer 2026 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.

<table>
<tr><th colspan="3">University Degree Requirements</th></tr>
<tr><td>Minimum 2.0 Cumulative GPA</td><td>Minimum 124 Credits that fulfill degree requirements</td><td>32 Residency Credits (30000 and above) at a Purdue University campus</td></tr>
<tr><th colspan="3">University Core Curriculum**</th></tr>
<tr><td colspan="2"><ul><li>Human Cultures: Behavioral/Social Science</li><li>Human Cultures: Humanities</li><li>Information Literacy</li><li>Oral Communication</li></ul>University Core Curriculum<br>Course Listing</td><td><ul><li>Quantitative Reasoning</li><li>Science</li><li>Science, Technology & Society Selective</li><li>Written Communication</li></ul></td></tr>
<tr><th colspan="3">Civic Literacy Proficiency - https://www.purdue.edu/provost/about/provostInitiatives/civics/</th></tr>
<tr><td colspan="3"></td></tr>
<tr><th colspan="3">College of Science Core Curriculum</th></tr>
<tr><td><ul><li>Written Communication: 3-4 credits</li><li>Technical Writing and Presentation: 0-6 credits</li><li>Computing: 3-4 credits</li><li>Cultural Diversity: 1-9 credits</li></ul></td><td><ul><li>General Education: 6 credits</li><li>Great Issues in Science: 3 credits</li><li>Laboratory Science: 6-8 credits</li><li>Mathematics: 8-10 credits</li></ul></td><td><ul><li>Science, Technology, and Society: 1-3 credits</li><li>Statistics: 3 credits</li><li>Team-Building and Collaboration: 0-3 credits</li></ul></td></tr>
<tr><th colspan="3">Degree Electives</th></tr>
<tr><td colspan="3">No Count courses are not allowed for credit. Overlapping Course Content courses - only one course can be used for courses considered to have overlapping content. A course can only be used once in the Major Course area.</td></tr>
</table>

* 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.

# 2025 – 2026 Science Education - Biology Concentration Degree Progression Guide

The College of Science has suggested the following degree progression guide for the Science Education – Biology Concentration Degree. Students will work with their advisors to determine their best path to degree completion.

| Credits | Fall 1st Year | Prerequisite | Credits | Spring 1st Year | Prerequisite |
|---|---|---|---|---|---|
| 2 | BIOL 12100 (meets Science, Technology, Society requirement) | | 3 | BIOL 13100 | |
| 5 | CHM 12901 Fall only | Calc I co-req | 3 | EDCI 28550 Multiculturalism and Education | |
| 2 | EDCI 20500 Exploring Teaching As A Career | | 4 | CHM 25500 and CHM 25501 | CHM 11600 or 12901 |
| 1 | EDST 20010 Ed Policies and Law | | 3-5 | Calculus II Selective | Calculus I, C- or higher |
| 2 | BIOL 13500 or 1450x | CHM 12901 co-req | 3-4 | Science Core Option | |
| 3-5 | Calculus I Selective | ALEKS or SAT pre-req | | | |
| 1 | Free Elective (BIOL 11500 recommended) | | | | |
| **16-18** | | | **16-19** | | |

| Credit | Fall 2nd Year | Prerequisite | Credits | Spring 2nd Year | Prerequisite |
|---|---|---|---|---|---|
| 3 | BIOL 23100 | CHM 12901, BIOL 13100 | 3 | BIOL 24100 | BIOL 23100 |
| 2 | BIOL 23200 | | 2 | BIOL 24200 | |
| 3 | EDCI 37001 Teaching and Learning ESL | Co-req: EDCI 36400 and EDCI 36500; Pre-req EDCI 20500 (min grade C-) and EDCI 28500 (min grade C-) | 2 | BIOL 28600 | BIOL 12100 |
| 1 | EDPS 24800 - Differentiating Curriculum And Instruction | | 2 | EDPS 23500 | |
| 2 | EDPS 36201 Positive Behavioral Supports | | 2 | EDPS 24001 | |
| 4 | CHM 25600 and CHM 25601 | Organic II Lecture & Lab | 2 | EDPS 26501 - The Inclusive Classroom | |
| 3-4 | Science Core Option | | 3 | Science Core Option | Varies |
| | | | 1 | EDPS/EDCI 20001 | Co-req: EDPS 24800 and EDPS 26501 |
| **18-19** | | | **17** | | |

| Credit | Fall 3rd Year | Prerequisite | Credit | Spring 3rd Year | Prerequisite |
|---|---|---|---|---|---|
| 1 | EDCI 27000 - Introduction To Educational Technology And Computing | | 3-4 | Science Core (CS 17700 or 15900) | |
| 1 | EDCI 30900 - Reading In Middle And Secondary Schools: Methods And Problems | | 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 | **EDCI 42800**: Pre-req: EDCI 20500 and 28500 and EDPS 23500 and 26500 (min grade C-) plus EDCI 42100 or EDCI 42400 or CHM 50200 (min grade C-) **EDCI 55800**: Pre-req: EDCI 53900 (may be taken concurrently) |
| 4 | PHYS I Selective | Varies | 4 | PHYS II Selective | PHYS I |
| 3-4 | Intermediate Biology Selective | Varies | 3-4 | BIOL Group B Selective | Varies |
| 2-3 | Group A Selective | Varies | 3 | Science Core | |
| 3 | Science Core Option | Varies | | | |
| 3 | Learner Specialty Dual Pathway Course | Varies | | | |
| **17-19** | | | **15-17** | | |

| Credit | Fall 4th Year | Prerequisite | Credit | Spring 4th Year | Prerequisite |
|---|---|---|---|---|---|
| 3 | STAT 50300 | | 12 | EDCI 49800 Supervised Teaching | EDCI 20500, 28500 AND EDPS 23500, 26500 (C- or better) |
| 3 | EDCI 42100 Fall only (Multidisciplinary Experience) | EDCI 20500, 28500 AND EDPS 23500, 26500 (C- or better) | | | |
| 1 | EDPS 32700 - Classroom Assessment | Pre-req: EDPS 23500 | | | |
| 2 | EDPS 43010 - Secondary Creating And Managing Learning Environments | | | | |
| 2-4 | Base Lab Requirement | | | | |
| 3-4 | 500-Level Biology Selective | Varies | | | |
| 3 | Science Core Great Issues Option | | | | |
| **17-20** | | | **12** | | |

| Science Core Curriculum Options<br>(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]<br>Foreign Language and Culture[UC] (<br>General Education[UC]<br>Statistics (STAT50300) | Technical Writing and Presentation[UC] (EDCI49800)<br>Science, Technology, and Society[UC]<br>Great Issues<br>Computing (CS 17700 or CS 15900) /Teamwork |

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.