Indiana High School Science Courses for Core 40 Curriculum Model

Pursuant to Indiana Code (IC) 20-19-2-21, the Indiana State Board of Education (SBOE) adopted revised rules regarding science requirements for the Core 40 curriculum model. To earn a Core 40 diploma designation, students are still required to obtain:

(1) two credits of Biology I;
(2) two credits of Chemistry I or Physics I or Integrated Chemistry-Physics; and
(3) two credits of any other Core 40 science course.

In June 2022, SBOE approved an expanded list of courses for students to satisfy the third requirement following recommendations from a committee of content area experts representing both secondary and postsecondary institutions, industry/community partners, and the Governor's Workforce Cabinet.

Changes to Career and Technical Education (CTE) coursework and the launch of new secondary CTE programs of study in the 2022-2023 school year were incorporated to satisfy this science requirement.

In early 2025, the Indiana Department of Education (IDOE), in consultation with the Indiana Commission for Higher Education's Career and Technical Education (CTE) team, updated this list to reflect removal of all Perkins courses. The following science courses are available to fulfill the requirement set forth by IC 20-19-2-21 and for use by students pursuing a Core 40 diploma (not the new Indiana diploma):

- 4818 Environmental Sustainability
- 5008 Animal Science
- 5070 Advanced Life Science, Animals
- 5072 Advanced Life Science: Foods
- 5074 Advanced Life Science, Plants and Soils
- 5170 Plant and Soil Sciences
- 5180 Natural Resources
- 5216 Human Body Systems
- 5217 Medical Interventions
- 5218 Principles of Biomedical Science
- 5229 Sustainable Energy Alternatives
- 5518 Aerospace Engineering
- 5644 Principles of Engineering
- 7113 Crop Management
- 7167 Pharmacy Tech
- 7170 Nutrition Planning and Therapy
- 7179 Cybersecurity Fundamentals
- 7181 Cybersecurity Operations
- 7183 Principles of Computing
- 7184 Software Development
- 7185 Website and Database Development
- 7230 Agriculture Biotechnology Capstone
- 7232 Horticulture Capstone
- 7253 Software Development Capstone
- 7249 Cybersecurity Operations

Capstone
- 7270 Forest and Wildlife Management
- 7271 Soil and Water Management
- 7321 Kinesiology
- 7323 Physical Therapist Capstone
- 7351 Topics in Computer Science
- 7352 Computer Science

AP/Cambridge International
- 4568 AP Computer Science Principles
- 4570 AP Computer Science A
- 8116 Cambridge Advanced A Level Computer Science
- 8118 Cambridge Advanced AS Level Computer Science

Change Log

The following Perkins V courses were removed as they are no longer in effect. Contact the Indiana Commission for Higher Education's Career and Technical Education (CTE) team with any related questions.

Course Number	Course Title	Description of Update
4801	Computer Science I	CTE removed these courses as they are no longer in effect.
5215	Health Science Education II: Physical Therapy	
5236	Computer Science II	
5249	Computer Science III: Software Development	
5250	Computer Science III: Databases	
5251	Computer Science III: Informatics	
5253	Computer Science III: Cybersecurity	
5344	Biochemistry of Foods	