



Indiana Department of Education

Dr. Katie Jenner, Secretary of Education

To: Superintendents, Principals, CTE Directors

From: Jake Koressel, Computer Science Specialist
Dr. Jennifer Jensen, Director of Secondary Learning
Dr. Charity Flores, Chief Academic Officer

Date: April 30, 2021

Subject: IC 20-30-5-23 - Computer Science Education

Background - IC 20-30-5-23

- a) After June 30, 2021, each public high school, including each charter school, shall offer at least one (1) computer science course as a one (1) semester elective in the public high school's curriculum at least once each school year for high school students.
- b) After June 30, 2021, each public school, including each charter school, shall include computer science in the public school's curriculum for students in kindergarten through grade 12.

Guidance

The following are guidance items in support of section (a):

Computer Science Courses

High schools must offer at least one computer science course each year. A complete list of high school courses that satisfy the requirements of IC 20-30-5-23, as well as high school course standards, can be found [here](#). Detailed course descriptions can be found [here](#). Note that 7183 Principles of Computing and 7184 Software Development have been added to the list of courses that satisfy the high school requirement.

Advanced Placement, International Baccalaureate, Cambridge International, and CTE

There are currently two Advanced Placement (AP) course offerings in computer science. Specific information about these courses can be found [here](#). AP Computer Science exams qualify for the Indiana exam fee [subsidy](#). There are also [International Baccalaureate](#) (IB), [Cambridge International](#) (CI), and CTE computer science course options. Information on computer science courses that qualify for CTE state funding can be found [here](#).

Teacher Licensure

Although computer science courses must be taught by an appropriately licensed teacher, licensure requirements vary by course and grade-level. Details can be found in the [Indiana Assignment Code](#). Various licensing options are available including: [computer science license addition](#), [career specialist license](#), and [workplace specialist license](#).



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The following are guidance items in support of section (b):

Computer Science Standards

K-8 students should receive standards-based computer science instruction each year. Computer science standards for grade bands K-2, 3-5, and 6-8 were adopted by the State Board of Education in 2016. Please visit [this page](#) for more information regarding Indiana computer science standards.

Elementary and Middle Level Computer Science Course Codes

0488.K2, 0488.35, and 0488.68 course codes are now available for schools wishing to offer a standalone computer science course/rotation for students in grades K-2, 3-5, and/or 6-8, respectively. All corresponding grade band standards should be covered when implementing. While inclusion of computer science standards in the curriculum for students in grades K-8 is required, schools may decide between a standalone implementation, an integrated implementation, or a combination.

Assessment

The Indiana K-8 computer science standards are housed as part of the Indiana science standards and are assessed on grades 4 and 6 ILEARN science assessments beginning in the 2018-2019 school year. For assessment blueprints, please visit [ILEARN Test Design](#). Click [here](#) to view item specifications.

It is important to note that the Indiana K-8 computer science standards are not intended to replace the appropriate grade level science standards, but should be taught in addition to the science standards.

Guidance in support of sections (a) and (b):

Professional Development

A variety of computer science professional development opportunities are available to Indiana educators of all grade levels. For a list of these opportunities, please visit <https://www.doe.in.gov/teaching-and-learning/educator-professional-development>. This list is continuously updated as new opportunities become available.

Resources

The [Computer Science Implementation Toolkit](#) and [Computer Science Curriculum and Resource Guide](#) may be helpful as schools/districts plan their computer science initiatives. Additional resources and information can be found [here](#).

If you have any questions, please contact IDOE Computer Science Specialist, Jake Koressel, at jkoressel@doe.in.gov.