

To: Superintendents, Principals, CTE Directors

From: Jake Koressel, Computer Science Specialist  
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Date: July 3, 2020

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

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](#).

#### 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) and [Cambridge International](#) (CI) computer science course options. Additionally, a variety of computer science courses qualify for CTE state funding. More 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 education license addition](#), [computer science license addition](#), [career specialist license](#), and [workplace specialist license](#).

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

### Computer Science Standards

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 <https://www.doe.in.gov/wf-stem/computer-science> for more information regarding Indiana computer science standards.

### 0488 Computer Science

0488.K2, 0488.35, and 0488.68 course codes are now available for schools wishing to offer a standalone computer science course for students in grades K-2, 3-5, and/or 6-8, respectively. The course framework can be found [here](#). 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 will be assessed on grades 4 and 6 ILEARN science assessments beginning in the 2018-2019 school year. For assessment blueprints, please visit <https://www.doe.in.gov/assessment/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/wf-stem/cspd>. 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](mailto:jkoressel@doe.in.gov).