

To: Superintendents, Principals, CTE Directors

From: Jake Koressel, Computer Science Specialist

Date: August 31, 2018

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 SEA 172, as well as high school course standards, can be found [here](#). Detailed course descriptions can be found [here](#).

Advanced Placement (AP) and CTE

There are currently two AP course offerings in computer science: AP Computer Science Principles and AP Computer Science A. Specific information about these courses can be found [here](#). 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](#), [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.

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 for 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.

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