

Indiana State University

Teaching 6-8 Computer Science in Indiana

Workshop Details and Learning Outcomes

Overall Summary ISU Computer Science is offering *Teaching 6-8 Computer Science in Indiana*. It will run on a Wednesday for six hours, broken into three two hour sessions. The workshop aims to both improve teacher content knowledge/skills and develop resources for pedagogy. This workshop is offered in collaboration with IndianaComputes! and the Indiana CS Higher Education Advisory board.

Attendance at each individual session will be tracked and recorded. Teachers completing three workshop sessions will be issued certificates of completion for six hours of **professional growth points**. Please contact us with any questions!

Location, Date, and Time: Online, Wednesday, June 10, 9 a.m. – 3 p.m.

Prerequisites: No previous programming or computer science experience will be assumed. Attendees will benefit from bringing a functioning laptop; this is not required. Attendees can be teachers, administrators, or others involved in K-12 education.

Facilitators: Dr. Jeff Kinne, Associate Professor of Computer Science and Mrs. Devon Kinne, Lecturer

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Overview: This workshop has two main aims – bring educators up to date on computer science grade 6-8 standards in Indiana, and build skills and knowledge in content and pedagogy needed to meet the standards. The workshop is broken into three two hour sessions – Getting Started with Indiana State Standards, Teaching as Standalone or Special, and Integrating with Math and Science. The first session includes – exploration of 6-8 computer science standards, preparing students for computer science iLEARN questions, state of Indiana resources, other online resources, and a roadmap for meeting standards in existing courses (including in a stand-alone special or technology course). The second and third sessions explore the roadmap in detail through use of existing resources and developing case studies that can be used in existing courses.

The *Teaching as Standalone or Special* session of this workshop focuses on building content knowledge, assignments, and assessments. This session also develops a course toolkit for teaching the middle school Middle Level Computer Science course that has been added to the state course options in 2019.

Learning outcomes: *Getting Started with Indiana State Standards, Integrating with Math and Science, Integrating with Language Arts and Social Studies*