



Guidelines for Submitting ECS Units

ECS InBrief Series

The *Exploring Computer Science* (ECS) curriculum provides a comprehensive set of inquiry-based lessons that comprise a yearlong, introductory computing course for high school students. The course is designed to allow learners to move through successive refinements from informal to complex ideas about computer science. The instructional materials focus on computer science concepts, providing learning experiences for students that introduce, reinforce, and apply key ideas of the discipline as they progress through the sequential units.

CONCEPTUAL APPROACH	ECS UNITS
<p><i>Introduce</i> Foundational Knowledge of Computer Science</p>	Unit 1: Human Computer Interaction Unit 2: Problem Solving
<p><i>Reinforce</i> Learning Computer Science through Coding & Design</p>	Unit 3: Web Design Unit 4: Introduction to Programming
<p><i>Apply</i> Applications in Computing</p>	Unit 5: Computing and Data Analysis Unit 6: Robotics

The dynamic nature of the rapidly changing field of computing and the diversity of students enrolled in ECS makes it important to provide flexibility of tools or new applications. These options might include different languages for the introduction to programming and different applications such as game design, media computation or development of mobile phone applications. Alternative units should support inquiry and contribute to an equitable classroom environment.

Anyone interested in contributing an ECS unit should submit the following.

Abstract

- Name of contributor(s)
- Brief description of the unit.
- Which ECS unit does it replace?
- What computer concepts are addressed?
- How does it support inquiry?
- In what ways does it contribute to equitable practice?

Complete unit

The features that need to be included are:

- Overview chart of daily lessons



- Specific plan for each day that includes all associated student assignments clearly described and a description of how the day will be conducted by the teacher, including description of each activity. (See ECS Daily Lesson Plan format.)
- A description of the final project for the students, associated rubric and teacher implementation instructions.

Submission

Submit potential units to Gail Chapman at chapgail@gmail.com. Units that are approved will be posted on the ECS website