

Collaboration in Computer Science

CodeHS Professional Development Online Course

Details

Course delivery method: Self-Paced Online Delivery

Contact hours: 4-5 approximate hours

Prerequisite(s): Some experience using CodeHS curriculum and LMS will be helpful

Introduction

In the course, educators will learn what collaboration in the computer science classroom looks like, explore the various ideas and techniques for student collaboration and learn how to foster a collaborative setting in their classrooms. Educators will learn about the challenges they may face and how to overcome those obstacles. They will also be introduced to the CodeHS tools that help to support a collaborative setting.

Course Outcomes

Educators will understand:

- What collaboration looks like in computer science and its importance in the computer science classroom
- How to successfully create an environment that encourages and supports collaboration
- How to implement different collaborative ideas and techniques both plugged and unplugged
- How to use the collaboration tools and resources provided through CodeHS
- The challenges that a collaborative classroom environment may face and how to overcome those challenges

More Information

Browse the content of this course at <https://codehs.com/course/16040/explore>.

Course Breakdown (4-5 Hours)

Unit 1: Welcome to Collaboration in Computer Science (20 min)	
Topics Covered	<ul style="list-style-type: none"> • Welcome to Collaboration in Computer Science • Course Syllabus • Course Outline • Getting Help in your Online Course • CodeHS Knowledge Base • Connect with the CodeHS Educator Community • Setting Your Goals!
Unit 2: What is Collaboration in Computer Science and Why Collaborate (10 min)	
Topics Covered	<ul style="list-style-type: none"> • What is Collaboration in Computer Science and Why Collaborate
Unit 3: Fostering a Collaborative Environment (30 minutes)	
Topics Covered	<ul style="list-style-type: none"> • Having a Plan and Ground Rules • Selecting Teams/Partners • Incentives to Encourage Collaboration
Unit 4: Collaboration Ideas and Techniques (1-2 Hours)	
Topics Covered	<ul style="list-style-type: none"> • Whiteboarding • Pair Programming • Pop Coding and Relays • Storytelling with Code • Unplugged Collaboration
Unit 5: The CodeHS Tools and Resources for Collaboration (30 minutes)	
Topics Covered	<ul style="list-style-type: none"> • How to use Live Collaboration and Live Chat • Embedding External Collaboration Tools
Unit 6: Challenges to Collaborative Learning (30 minutes)	
Topics Covered	<ul style="list-style-type: none"> • What are the Challenges in a Collaborative Setting • How to Overcome the Challenges of Collaboration • Cheat Detection and Prevention
Unit 7: Final Reflection (10 minutes)	
Topics Covered	<ul style="list-style-type: none"> • End of Course Reflection • Workshop Survey • Certificate of Completion

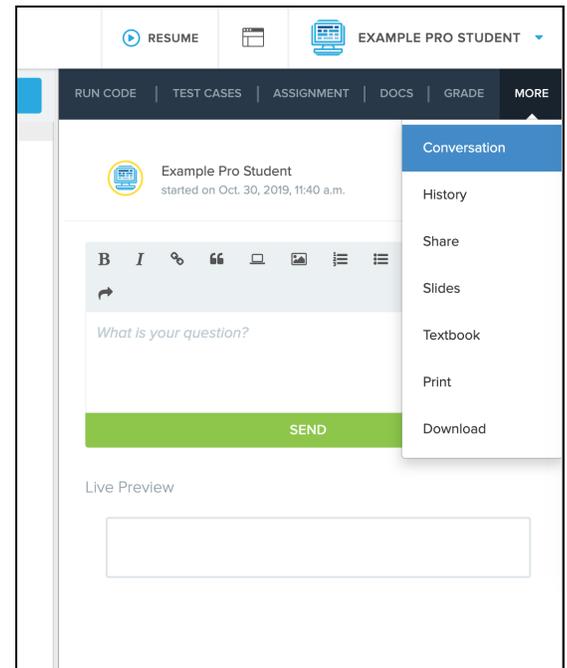
Communication & Support

The instructor(s) will communicate with students as needed for individual questions and feedback.

Getting Help with Activities

Course students can use the Conversation tab in the code editor to ask questions about any of the activities in the course. Course instructor(s) will respond to questions and provide feedback in this area as well.

You can find more information about getting help with your coursework [HERE](#).



Course Criteria for Completion

Once students have successfully completed all activities in the course, a Certificate of Completion will be available.