

# Intel® Teach Program Essentials Online Course Overview

“Computers aren’t magic, teachers are.”  
—Craig Barrett, Chairman of the Board  
Intel Corporation

The Intel® Teach Essentials Online Course addresses the industry’s recognition that all of the educational technology in classrooms today is worth nothing if teachers do not know how to use it effectively.

## Description

The Intel Teach Essentials Online Course is one of many professional development courses in the Intel® Teach Program portfolio that provides teachers with the skills to effectively integrate computer technology to improve student learning.

## Goal

The goal of the Essentials Online Course is to help teachers discover how to use computer technology to captivate, motivate, and, ultimately, move students toward 21st century learning.

## Strategies

To meet the goal of the course, we use four major strategies:

- Focus on the ways students and teachers use technology to enhance learning through research, communication, collaboration, and productivity strategies and tools
- Emphasize hands-on learning and creation of curricular units and assessments
- Promote student-centered learning that encourages self-direction and higher-order thinking
- Encourage teachers to collaborate with colleagues to improve instruction by problem solving and participating in peer reviews of units

## Content

The course addresses an Essential Question: *How can technology be used most effectively to support and assess student learning?* Teachers work as curriculum designers and explore this question in eight modules and create a technology-infused, student-centered, standards-based unit.

Through a hybrid face-to-face and online training model, teachers participate in 32 hours of professional development infused with research-based approaches to integrate technology into the classroom. Teachers explore the possibilities of current web-based collaborative technologies and other software applications before selecting the most appropriate tools to support student learning in their unit design. The resulting unit includes a sample student project, student self-direction tools, and multiple types of assessment that are embedded throughout the unit. Teachers who participate as Master Trainer candidates complete an additional 4-hours which prepares them to facilitate their own hybrid face-to-face and online course.

<b>Orientation Module</b>	
<b>Topics:</b>  Course design and structure	<b>Key Activities:</b> <ul style="list-style-type: none"><li>• Explore the course schedule and course features</li><li>• Complete an online profile and learn about the course community</li><li>• Check available software applications</li><li>• Review a sample unit plan and develop topic ideas for your own unit plan</li><li>• Participate in a discussion using the course blog</li><li>• Complete the Orientation Survey</li></ul>
<b>Module 1: Teaching with Projects</b>	
<b>Topics:</b>  Project-based learning and unit design	<b>Key Activities:</b> <ul style="list-style-type: none"><li>• Review portfolio components</li><li>• Identify 21st century skills for your unit</li><li>• Develop initial unit ideas</li><li>• Reflect on learning in course blog</li></ul>
<b>Module 2: Planning My Unit</b>	
<b>Topics:</b>  Curriculum-Framing Questions and student-centered assessment	<b>Key Activities:</b> <ul style="list-style-type: none"><li>• Identify standards/syllabus outcomes for your unit</li><li>• Create Curriculum-Framing Questions</li><li>• Research effective assessment strategies</li><li>• Draft an Assessment Timeline</li><li>• Create an assessment to gauge student needs</li><li>• Create a Unit Portfolio Presentation</li><li>• Reflect on learning in course blog</li></ul>
<b>Module 3: Making Connections</b>	
<b>Topics:</b>  The Internet to support teaching and learning	<b>Key Activities:</b> <ul style="list-style-type: none"><li>• Obtain feedback to improve Unit Portfolio and gauging student needs assessment</li><li>• Share ideas for meeting standards with projects</li><li>• Review copyright laws</li><li>• Create a Works Cited document</li><li>• Integrate the use of Internet resources to support research, communication, collaboration, problem solving, and other 21st century skills</li><li>• Use an online collaborative Web site to share ideas</li><li>• Reflect on learning in course blog</li></ul>
<b>Module 4: Creating Samples of Learning</b>	
<b>Topics:</b>  Project outcomes from a student perspective	<b>Key Activities:</b> <ul style="list-style-type: none"><li>• Identify strategies to ensure safe and responsible Internet use</li><li>• Create a sample student publication, presentation, wiki, or blog to demonstrate student learning</li><li>• Draft your Teaching and Learning Activities</li><li>• Self-assess your student sample</li><li>• Reflect on learning in course blog</li></ul>
<b>Module 5: Assessing Student Projects</b>	

<b>Topics:</b>  Formative and summative assessment	<b>Key Activities:</b> <ul style="list-style-type: none"><li>• Self-assess your current assessment practices</li><li>• Draft an Assessment Summary</li><li>• Create an assessment for your student sample</li><li>• Revise your Unit Plan</li><li>• Reflect on learning in course blog</li></ul>
<b>Module 6: Planning for Student Success</b>	
<b>Topics:</b>  Student support and self-direction	<b>Key Activities:</b> <ul style="list-style-type: none"><li>• Explore strategies to differentiate instruction</li><li>• Create an assessment to encourage student self-direction (optional)</li><li>• Create student support materials (optional)</li><li>• Revise your Unit Plan to incorporate accommodations for all learners</li><li>• Reflect on learning in course blog</li><li>• Self-assess your facilitation of a student-centered classroom (optional)</li></ul>
<b>Module 7: Facilitating with Technology</b>	
<b>Topics:</b>  Teacher as facilitator	<b>Key Activities:</b> <ul style="list-style-type: none"><li>• Explore questioning strategies to promote higher-order thinking</li><li>• Create facilitation materials</li><li>• Revise your Unit Plan</li><li>• Discuss implementation strategies</li><li>• Self-assess your Unit Portfolio and revise based on your assessment</li><li>• Reflect on learning in course blog</li></ul>
<b>Module 8: Showcasing Unit Portfolios</b>	
<b>Topics:</b>  Sharing learning	<b>Key Activities:</b> <ul style="list-style-type: none"><li>• Prepare for showcasing your unit</li><li>• Give and receive feedback on Unit Portfolios</li><li>• Reflect on learning in course blog</li><li>• Evaluate the Essentials Online Course</li></ul>