

Intel® Teach Elements Collaboration in a Project-Based Approaches Classroom

Syllabus

Course Description

This course focuses on project-based learning in a collaborative classroom environment, using online collaborative tools. Participants are provided with an overview of project-based learning and consider how collaborative technologies can support project-based approaches.

Activity 1: Projects Introduction

In this activity, participants explore the principles of project-based learning. They learn about the differences between a project-based approach and conventional teaching, and review the research-based benefits of project-based learning. As they view examples of different projects and hear from teachers doing projects, they come to understand the characteristics that projects have in common.

Outcomes:

- Recognize what makes a project approach unique
- Understand the benefits of projects
- Identify characteristics of projects

Step 1: Project Basics

- **E-learning Content:**

Intel® Teach Elements: Project-Based Approaches

Module 1: Projects Overview> Lesson 1: Project Basics (Activities 1-3) and Lesson 2: Benefits Based on Research (Activity 1)

Step 2: Project Characteristics

- **E-learning Content:**

Intel Teach Elements: Project-Based Approaches

Module 1: Projects Overview> Lesson 3: Project Characteristics (Activity 1)

Activity 2: Collaboration in the Classroom

In this activity, participants are introduced to the elements and benefits of a collaborative classroom. They see examples of collaborative classrooms and understand ways to implement collaboration activities in a classroom with and without technology.

Outcomes:

- Understand why collaboration is an important skill for now and the future
- Become familiar with the traits of collaboration

Step 1: Collaboration Basics

- **E-learning Content:**

Intel Teach Elements: Collaboration in the Digital Classroom
Module 1: Collaborative Classrooms > Lesson 1: Collaboration Basics (Activity 2)

Step 2: Collaboration Planning Overview

- **E-learning Content:**

Intel Teach Elements: Collaboration in the Digital Classroom
Module 1: Collaborative Classrooms > Lesson 2: Collaboration Planning (Activities 1,2)

Step 3: Collaboration Traits

- **E-learning Content:**

Intel Teach Elements: Collaboration in the Digital Classroom
Module 1: Collaborative Classrooms > Lesson 4: Collaboration Characteristics (Activity 3)

Activity 3: Planning Collaborative Projects

In this activity, participants begin thinking about designing their own projects. They are introduced to the four major steps of project design and apply these steps to consider their own learning goals, Curriculum-Framing Questions, assessment, and student activities. Participants are also introduced to the Collaboration Framework to help them in planning collaborative activities.

Outcomes:

- Understand the steps of project design
- Identify standards, 21st century skills, and learning objectives for a project plan
- Learn the purposes and components of Curriculum-Framing Questions
- Become familiar with the Digital Collaboration Framework

Step 1: Project Planning

- **E-learning Content:**

Intel Teach Elements: Project-Based Approaches
Module 2: Project Design > Lesson 1: Project Planning

Step 2: Goals and Questions

- **E-learning Content:**

Intel Teach Elements: Project-Based Approaches
Module 2: Project Design > Lesson 2: Learning Goals and Lesson 3: Questions that Frame Learning (Activity 1)

Step 3: Activities

- **E-learning Content:**

Intel Teach Elements: Project-Based Approaches
Module 2: Project Design > Lesson 5: Activity Design

Intel Teach Elements: Collaboration in the 21st Century
Module 2: A Framework for Digital Collaboration > Lesson 1: Collaboration Purposes (Activity 1) and Lesson 2: Collaboration Activities

Activity 4: Collaborative Tools

This activity explores online tools that support collaboration in the classroom. Participants use project scenarios that integrate collaborative tools to help locate and integrate online tools for projects.

Outcomes:

- Understand the differences between the old Web and the new, more collaborative Web
- Review different types of Web-based tools and how they can support collaboration
- Learn how to find and choose the best tools for the job

Step 1: Collaboration Tools

- **E-learning Content:**

Intel Teach Elements: Collaboration in the 21st Century
Module 3: New Tools for Collaboration > Lesson 1: New Tools for Collaboration and Lesson 2: A Closer Look at Collaborative Tools

Activity 5: Assessment

Assessment is integral to a project-based approach. In this activity, participants get an overview of assessment in order to learn how to integrate assessment throughout a project. The focus of this activity is learning to assess collaboration—using teacher, peer, and self-assessment methods.

Outcomes:

- Understand the different purposes, methods, and instruments for assessing projects
- Explore ways to assess collaboration

Step 1: Assessment in Projects

- **E-learning Content:**

Intel Teach Elements: Project-Based Approaches
Module 3: Assessment > Lesson 1: Assessment Strategies for Projects

Step 2: Assessment of Collaboration

- **E-learning Content:**

Intel Teach Elements: Project-Based Approaches
Module 3: Assessment > Lesson 2: Assessment of 21st Century Skills (Activity 1) and

Intel Teach Elements: Collaboration in the 21st Century
Module 2: A Framework for Digital Collaboration > Lesson 3: Assessment (Activities 2 and 3)

Course Length

Total hours to complete the course depend on how the course is taken (self-paced or facilitated), the number of optional activities completed, and the delivery method (face-to-face or online.)

1. E-learning: 4-5 hours of individual work learning concepts of project-based learning in interactive tutorials and exercises
2. Action Planning: 8-12 hours of individual work, applying project-based approaches to one's own classroom
3. Facilitated Discussions: 5-8 hours of sharing ideas with other teachers and giving feedback on action plans (Note: Facilitated versions of the course will be available November 2009)