

The Art and Science of Teaching

In “The Art and Science of Teaching,” you will explore the research behind effective classroom instruction as well practical ways to put the research to work in the classroom. Using the strategies presented in the course, you will be better equipped to meet the diverse needs of your students.

Course Objectives

After completing this course, you should be able to:

Module 1

- Consider how to establish and communicate learning goals, track student progress, and celebrate student academic success.
- Develop classroom rules and procedures to ensure uninhibited teaching and learning.

Module 2

- Evaluate the reasons and methods for helping students effectively interact with new knowledge.
- Analyze techniques that allow students to practice and deepen their understanding of new knowledge.

Module 3

- Recognize methods for helping students generate and test hypotheses about new knowledge.

Module 4

- Understand the role of effective student engagement in the classroom.
- Recognize and acknowledge methods for tracking student adherence (and lack of adherence) to classroom rules and procedures.

Module 5

- Evaluate techniques for maintaining effective relationships with students.
- Understand how to critique your current student expectations and how to communicate high expectations for all students.

Module 6

- Use the design questions to develop effective lessons organized in curriculum units.

Course Syllabus

Module 1	Design Questions 1 and 6 <ul style="list-style-type: none">• Module Welcome• Reading 1: Introduction—A Question Answered• Reading 2: Design Question 1• Video 1: Design Question 1• Reading 3: Design Question 6• Video 2: Design Question 6• Knowledge Check• Application 1: Design Question 1• Application 2: Design Question 6• Module Review• Post-Module Reflection
Module 2	Design Questions 2 and 3 <ul style="list-style-type: none">• Module Welcome• Reading 1: Design Question 2• Video 1: Design Question 2• Reading 2: Design Question 3• Video 2: Design Question 3• Knowledge Check• Application 1: Design Question 2• Application 2: Design Question 3• Module Review• Post-Module Reflection

Module 3	Design Question 4 <ul style="list-style-type: none">• Module Welcome• Reading: Design Question 4• Video: Design Question 4• Knowledge Check• Application: Design Question 4• Module Review• Post-Module Reflection
Module 4	Design Questions 5 and 7 <ul style="list-style-type: none">• Module Welcome• Reading 1: Design Question 5• Video 1: Design Question 5• Reading 2: Design Question 7• Video 2: Design Question 7• Knowledge Check• Application 1: Design Question 5• Application 2: Design Question 7• Module Review• Post-Module Reflection

Module 5	Design Questions 8 and 9 <ul style="list-style-type: none">• Module Welcome• Reading 1: Design Question 8• Video 1: Design Question 8• Reading 2: Design Question 9• Video 2: Design Question 9• Knowledge Check• Application 1: Design Question 8• Application 2: Design Question 9• Module Review• Post-Module Reflection
Module 6	Design Question 10 <ul style="list-style-type: none">• Module Welcome• Reading: Design Question 10• Video: Design Question 10• Application: Design Question 10• Module Review• Post-Module Reflection

References

Texts

Brown, John L., and Marzano, Robert J. (2009). *A handbook for the art and science of teaching*. Alexandria, VA: ASCD.

Marzano, Robert J. (2007). *The art and science of teaching*. Alexandria, VA: ASCD.

DVDs

ASCD. (2008) *The art and science of teaching: Effective instructional strategies* [DVD]. Alexandria, VA.

ASCD. (2008) *The art and science of teaching: Effective classroom management strategies* [DVD]. Alexandria, VA.