

Principles of Architecture and Construction, Semester A

Course Overview

The Principles of Architecture and Construction Semester A course is intended to help familiarize you with basic concepts of architecture and construction and a wide range of careers available in this field. Principles of Architecture and Construction Semester A begins by introducing foundational concepts of architecture and construction. This course covers architectural drawings, structure and loads, materials, and equipment used in architecture and construction. In this course, you will also review career opportunities in the field of Architecture and Construction. Finally, this course will explain the important workplace ethics required in this field.

Course Goals

By the end of this course, you will:

- Explain contemporary architectural styles and analyze architectural drawings.
- Identify physical properties of architectural structures and materials and equipment used in the construction industry.
- Identify career options in architecture, construction management, and interior design.
- Explain job acquisition and advancement skills required to apply for a job and seek promotion.
- Explain lifelong-learning skills to continually acquire new industry-related information and improve professional skills.
- Explain the importance of positive work ethics and integrity in a workplace.
- Explain the importance of self-representation, creative resourcefulness, and teamwork at the workplace.

General Skills

To participate in this course, you should be able to do the following:

- Complete basic operations with word-processing software such as Microsoft Word or Google Docs.
- Perform online research using various search engines and library databases.
- Communicate through email and participate in discussion boards.

For a complete list of the general skills required for participation in online courses, refer to the Prerequisites section of the Plato Student Orientation document, found at the beginning of this course.

Credit Value

PLATO Course Principles of Architecture and Construction, Semester A is a 0.5-credit course.

Course Materials

- notebook
- computer with an Internet connection and speakers or headphones
- Microsoft Word or equivalent

Course Pacing Guide

This course description and pacing guide is intended to help you stay on schedule with your work. Note that your course instructor may modify the schedule to meet the specific needs of your class.

Unit 1: Introduction to Architecture and Construction

Summary

In this unit, you will identify architectural designs, styles, and drawings. You will also identify the physical properties of architectural structures and familiarize yourself with materials used in architecture and the costs involved. Finally, you will explain the tools and equipment used in construction.

Day	Activity/Objective	Type
1 day: 1	Syllabus and Plato Student Orientation <i>Review the Plato Student Orientation and Course Syllabus at the beginning of this course.</i>	Course Orientation
5 days: 2–6	Concepts of Architecture <i>Explain concepts of architecture and contemporary architectural styles.</i>	Lesson
4 days: 7–10	Architectural Drawings <i>Explain architectural drawings.</i>	Lesson
4 days: 11–14	Structure and Loads <i>Identify physical properties of architectural structures.</i>	Lesson
5 days: 15–19	Material and Costs <i>Describe materials used in architecture and estimate costs.</i>	Lesson
5 days: 20–24	Construction Equipment <i>Describe various types of equipment used in the construction industry.</i>	Lesson
1 day: 25	Space Jumble	Game
4 days: 26–29	Unit Activity/ Threaded Discussion—Unit 1	Unit Activity

Day	Activity/Objective	Type
1 day: 30	Posttest—Unit 1	Assessment

Unit 2: Careers in Architecture and Construction

Summary

In this unit, you will identify career opportunities in architecture, construction management, and interior design. You will also describe the skills and qualifications required to pursue these careers. In addition, you will explain how to acquire jobs and advance in your career. Finally, you will analyze the importance of life-long learning skills in improving professional skills.

Day	Activity/Objective	Type
5 days: 31–35	Career of an Architect <i>Explain career options in architecture.</i>	Lesson
5 days: 36–40	Careers in Construction Management <i>Describe construction management roles and responsibilities.</i>	Lesson
5 days: 41–45	Careers in Interior Design <i>Describe career options in interior design and explain concepts related to interior design.</i>	Lesson
5 days: 46–50	Job Acquisition and Career Advancement <i>Identify job acquisition and advancement skills needed to apply for a job and seek promotion.</i>	Lesson
4 days: 51–54	Life-Long Learning <i>Explain how lifelong-learning skills help in improving professional skills.</i>	Lesson
1 day: 55	Para Jumble	Game
4 days: 56–59	Unit Activity/Threaded Discussion—Unit 2	Unit Activity

Day	Activity/Objective	Type
1 day: 60	Posttest—Unit 2	Assessment

Unit 3: Workplace Skills

Summary

In this unit, you will explain the importance of positive work ethics and integrity in the workplace. You will also explain how to present yourself as a dependable and reliable employee. Finally, you will describe how to contribute new ideas and work as part of a team.

Day	Activity/Objective	Type
5 days: 61–65	Positive Work Ethics <i>Explain the importance of positive work ethics.</i>	Lesson
4 days: 66–69	Integrity <i>Explain the importance of integrity in a workplace.</i>	Lesson
4 days: 70–73	Self-Representation <i>Explain why positive self-representation skills are employment requirements for the workplace.</i>	Lesson
4 days: 74–77	Creative Resourcefulness <i>Explain how to demonstrate creativity and resourcefulness by contributing new ideas and working with initiative.</i>	Lesson
5 days: 78–82	Teamwork <i>Explain how to demonstrate teamwork skills by contributing to the success of the team, assisting others, and requesting help when needed.</i>	Lesson
1 day: 83	Thwack-A- Mole	Game
4 days: 84–87	Unit Activity/Threaded Discussion—Unit 3	Unit Activity
1 day: 88	Posttest—Unit 3	Assessment
1 day: 89	Semester Review	
1 day: 90	End-of-Semester Test	Assessment