

Northwest Arkansas Community College
(Workforce Division)

Discipline Code

CST

Course Number

2423

Course Title

Construction Codes & Regulations

Catalog Description

This course reviews the International Residential Code (IRC) to provide a complete study of residential building codes covering administration and enforcement, site development, structural design, finishes and weather protection, health and safety, utilities, energy conservation and hazard protection.

Prerequisites

None

Credit Hours

3 credit hours

Contact hours

45 lecture contact hours

Load hours

3 load hours

Semesters Offered

Fall, Spring, Summer

ACTS Equivalent

N/A

Grade Mode

A-F

Learning Outcomes

Upon completing this course, the student should be able to:

- Recognize the intent of building codes to protect the safety and welfare of the occupants of buildings and the public.

- Interpret and apply the International Residential Code (IRC) and use that ability to understand and use the commercial building codes.
- Recognize and demonstrate the proper use of construction terminology.

General Education Outcomes Supported

- Students develop higher order thinking skills.
- Students can write clear, coherent, well-organized documents, substantially free of errors.
- Students develop effective oral communication skills.
- Students demonstrate information literacy.

Standard Practices

Topics list

- Purposes of individuals and parties involved in the construction process
- Principles of Structural Behavior
- Principles of Mechanical, Electrical, and Plumbing Systems
- Legal Implications of Contract, Common, and Regulatory Law to Manage a Construction Project
- Methods, Materials, and Equipment Used to Construct Projects

Learning activities

- Courses must, at a minimum, cover the core learning outcomes for each topic. Faculty may add to these outcomes but may not omit any of them.
- The online International Residential Code and International Building Codes are used to understand, research, and apply proper construction materials and techniques to project specifications.
- Video, reading, and writing assignments are used to demonstrate understanding and application of these codes and regulations.
- Since all general education outcomes are supported by specific course and program outcomes, all instructors should include learning activities that develop these outcomes in their courses and identify them in course syllabi. Instructors should describe how these activities will be evaluated in their course syllabi and/or reflected in their gradebooks.

Assessments

Exams covering International Residential Code and International Building Code, in-class exercises, and end of chapter reviews.

Grading guidelines

- 90% score of all graded assignments = A
- 80% - 89% score on all graded assignments = B
- 70% - 79% score on all graded assignments = C
- 60% - 69% score on all graded assignments = D
- <60% score on all graded assignments = F

Revision Date February 20, 2023