



# BROWARD COLLEGE COURSE OUTLINE

**LAST REVIEW: 2008 - 2009**

**NEXT REVIEW: 2013 – 2014**

**STATUS: A**

**COURSE TITLE: Codes and Standards**

**COMMON COURSE NUMBER: FFP 1510**

**CREDIT HOURS: 3**

**CONTACT HOUR BREAKDOWN**

*(per 16 week term)*

**CLOCK HOURS:**

*(Voc. Course ONLY)*

Lecture: **48**

Lab:

Clinic:

Other:

**PREREQUISITE(S): None**

**COREQUISITE(S): None**

**PRE/COREQUISITE(S):**

**COURSE DESCRIPTION** *(750 characters, maximum):*

Review specific requirements of codes and standards that have a direct influence on life safety in both new and existing structures. Study includes discussion on the requirements for property protection.

General Education Requirements – Associate of Arts Degree (AA), meets Area(s): Area

General Education Requirements – Associate in Science Degree (AS), meets Area(s): Area

General Education Requirements – Associate in Applied Science Degree (AAS), meets Area(s): Area

## **UNIT TITLES**

1. Fundamental Requirements and Definitions
2. Classification and Contents
3. Means of Egress
4. Features of Fire Protection
5. Building Service and Fire Protection
6. New Occupancies
7. Existing Occupancies
8. Operating Features

**EVALUATION:**

Please provide a brief description (250 characters maximum) that details how students will be evaluated on the course outcomes.

1. Quizzes, Test, and/or Final Exam (cumulative/comprehensive);
2. Selected faculty may assess homework, projects, class participation/attendance, and/or extra credit projects.

*\*\*\* Complete the following only if course is seeking general education status \*\*\**

**GENERAL EDUCATION Competencies and Skills\*:**

Please highlight in green font all Competencies/Skills from the list below that apply to this course. In the box to the right of the Competency/Skill, enter all specific learning outcome numbers (i.e. 1.1, 2.7, 5.12) that apply.

1. Read with critical comprehension	
2. Speak and listen effectively	
3. Write clearly and coherently	
4. Think creatively, logically, critically, and reflectively (analyze, synthesize, apply, and evaluate)	
5. Demonstrate and apply literacy in its various forms: (highlight in green ALL that apply) (1. technological, 2. informational, 3. mathematical, 4. scientific, 5. cultural, 6. historical, 7. aesthetic and/or 8. environmental )	
6. Apply problem solving techniques to real-world experiences	
7. Apply methods of scientific inquiry	
8. Demonstrate an understanding of the physical and biological environment and how it is impacted by human beings	
9. Demonstrate an understanding of and appreciation for human diversities and commonalities	
10. Collaborate with others to achieve common goals.	
11. Research, synthesize and produce original work	
12. Practice ethical behavior	
13. Demonstrate self-direction and self motivation	
14. Assume responsibility for and understand the impact of personal behaviors on self and society	
15. Contribute to the welfare of the community	

\* General Education Competencies and Skills endorsed by '05-'06 General Education Task Force

**UNITS****Unit 1 Fundamental Requirements and Definitions****General Outcome:**

- 1.0 The students should be able to demonstrate knowledge of the goals of the life safety code and the terms and their meanings that apply to the context.

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 1.1 Describe the minimum requirements for providing safety from fire in buildings.
- 1.2 Identify goals to ensure a reasonable level of safety in building design and arrangement.
- 1.3 Recognize & understand the terms used for the purpose of the code & their meanings.

**Unit 2 Classifications and Contents****General Outcome:**

- 2.0 The students should be able to demonstrate an understanding of the various group classifications for certain type occupancies and the potential danger that contents of a structure represent.

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 2.1 List the reasons for classification of occupancy.
- 2.2 Explain why some occupancies are more hazardous than others.
- 2.3 Discuss the main concerns for life safety in each occupancy.
- 2.4 Recognize the potential threat to life the contents of a structure represents.

**Unit 3 Means of Egress**

**General Outcome:**

- 3.0 The students should be able to discuss the established minimum requirements for the means of egress.

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 3.1 Name the requirements for a standard exit.
- 3.2 Discuss the exit access requirements.
- 3.3 Discuss the exit discharge requirements.
- 3.4 Discuss the following exit standards:
- A. Width, number, and arrangement of exits.
  - B. Lighting and identification of exits.
  - C. Travel distance.
  - D. Exit capacity.

**Unit 4 Features of Fire Protection**

**General Outcome:**

4.0 The students should be able to explain how those using exits other safe areas

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 4.1 Discuss the factors that cause numerous multi-fatality fires.
- 4.2 Describe the hazard of the lack of compartmentation.
- 4.3 Explain the hazard of unprotected vertical openings.
- 4.4 Describe the hazard of highly combustibile interiors.
- 4.5 Discuss the hazard of overlooked hidden spaces.

**Common Course Number: FFP 1510**

**Unit 5 Building Service and Fire Protection Equipment**

**General Outcome:**

- 5.0 The students should be able to discuss the types of utility services hazards and the fire protection equipment available.

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 5.1 Explain how installed utilities and their design contribute to fire and smoke spread.
- 5.2 Discuss the inherent hazards of such installations and their potential for causing panic conditions.
- 5.3 Outline the various types and features and understand the limitations of fire protection equipment.

**Unit 6 New Occupancies**

**General Outcome:**

- 6.0 The students should be able to discuss the fire protection features required to conform to the standards for new occupancies.

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 6.1 Name the life safety features for new construction.
- 6.2 Discuss the code requirements involving modernization or renovations of structures.
- 6.3 Apply this knowledge to specific new occupancies, such as:
- A. Multiple dwellings
  - B. Private dwellings
  - C. Commercial occupancies.

**Unit 7 Existing Occupancies**

**General Outcome:**

- 7.0 The students should be able to discuss the fire protection features required to comply with the standards for existing occupancies.

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 7.1 Name the life safety features required for existing structures.
- 7.2 Discuss the code requirements for mixed occupancies.
- 7.3 Apply this knowledge to specific existing occupancies, such as:
- A. Multiple dwellings
  - B. Private dwellings
  - C. Commercial

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**Unit 8 Operating Features**

**General Outcome:**

- 8.0 The students should be able to describe how the reliance for life safety does not depend solely on any single safeguard.

**Specific Measurable Learning Outcomes:**

**Upon successful completion of this unit, the student shall be able to:**

- 8.1 Describe the features for adequate escape facilities and their maintenance.
- 8.2 Provide the guide lines for interior decorations and the maintenance of such.
- 8.3 Name the code requirements for fire exit drills.
- 8.4 Apply these operating features to specific occupancies.