



BROWARD COLLEGE COURSE OUTLINE

LAST REVIEW: 2008- 2009
(i.e. 2003-2004)

NEXT REVIEW: 2013- 2014
(i.e. 2008-2009)

STATUS: A
(A, I, D)

COURSE TITLE: Private Fire Protection Systems II

COMMON COURSE NUMBER: FFP 2541

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): FFP 1540- Fire Protection and Detection Systems

COURSE DESCRIPTION : This course is an in-depth discussion of pre-engineered and portable systems, extinguishing agents, inspection procedures for code compliance and enforcement, and alarm systems.

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. Overview of pre-engineered systems
2. Restaurant pre-engineered systems
3. Mobile pre-engineered systems
4. Integration of pre-engineered systems into fire alarm systems
5. Portable fire extinguishers
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.
- 12.
- 13.

EVALUATION:

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

1. Quizzes, tests, projects, exercises, and/or final exam (cumulative or comprehensive)
2. Individual faculty may also choose to assess class participation, attendance, and/or extra credit assignments.

**** 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: <i>(highlight in green ALL that apply)</i> (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

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UNITS

Unit 1

General Outcome:

- 1.0 The student shall: demonstrate an understanding of the different pre-engineered systems commonly found in service.**

Specific Measurable Learning Outcomes:

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

- 1.1 Explain the history of the pre-engineered systems**
- 1.2 Describe the different types of applications which require protection.**
- 1.3 Describe the concept or theory of the pre-engineered system.**
- 1.4 Describe the different agents which may be used in a pre-engineered system**
- 1.5 Explain the laws and rules applicable to pre-engineered systems.**
- 1.6**
- 1.7**
- 1.8**
- 1.9**
- 1.10**
- 1.11**
- 1.12**
- 1.13**
- 1.14**
- 1.15**

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Unit 2

General Outcome:

- 2.0 The student shall: demonstrated an understanding of the pre-engineered systems found in restaurant or commercial kitchens.**

Specific Measurable Learning Outcomes:

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

- 2.1 Explain the evolution of the pre-engineered systems used in restaurants or commercial kitchens.**
- 2.2 Explain the operation of the system.**
- 2.3 Describe the parts of the different systems.**
- 2.4 Describe the procedure for testing the system.**
- 2.5 Describe how these systems differ from an industrial system.**
- 2.6**
- 2.7**
- 2.8**
- 2.9**
- 2.10**
- 2.11**
- 2.12**
- 2.13**
- 2.14**
- 2.15**

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Unit 3

General Outcome:

- 3.0 The student shall: demonstrate an understanding mobile pre-engineered systems**

Specific Measurable Learning Outcomes:

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

- 3.1 Describe the different types of mobile pre-engineered systems.**
- 3.2 Explain how mobile systems differ from fixed mounted systems.**
- 3.3 Describe the testing procedure for mobile systems.**
- 3.4**
- 3.5**
- 3.6**
- 3.7**
- 3.8**
- 3.9**
- 3.10**
- 3.11**
- 3.12**
- 3.13**
- 3.14**
- 3.15**

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Unit 4

General Outcome:

- 4.0 The student shall: demonstrate an understanding of the steps required to integrate a pre-engineered system into a fire alarm system.**

Specific Measurable Learning Outcomes:

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

- 4.1 Describe the parts of a fire alarm system interacting with a pre-engineered system.**
- 4.2 Describe the testing procedure for the fire alarm system with the pre-engineered system.**
- 4.3 Explain the different regulations relating to both systems.**
- 4.4 Explain who may test, repair, inspect, or maintain each system.**
- 4.5**
- 4.6**
- 4.7**
- 4.8**
- 4.9**
- 4.10**
- 4.11**
- 4.12**
- 4.13**
- 4.14**
- 4.15**

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Unit 5

General Outcome:

- 5.0 The student shall: demonstrate an understanding of portable fire extinguishers.**

Specific Measurable Learning Outcomes:

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

- 5.1 Explain the laws, codes and standards affecting portable fire extinguishers.**
- 5.2 Describe the different types of portable fire extinguishers.**
- 5.3 Describe the maintenance schedule for the different portable fire extinguishers.**
- 5.4**
- 5.5**
- 5.6**
- 5.7**
- 5.8**
- 5.9**
- 5.10**
- 5.11**
- 5.12**
- 5.13**
- 5.14**
- 5.15**