Montgomery County Community College FSC 105 Fire Prevention and Code Enforcement 3-3-0

COURSE DESCRIPTION:

The topics covered include: federal state and local building codes and ordinances; national fire protection standards; National Electrical Code; Life Safety Codes; how codes affect construction and fire fighting; and the role of local fire departments and state officials.

REQUISITES:

Previous Course Requirements

- FSC 100 - Introduction to Fire Science

Concurrent Course Requirements None

LEARNING OUTCOMES Upon successful completion of this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
Define the national fire problem and main issues relating thereto.	Assigned Readings Lectures Discussions Case Study Analysis Application of Lecture Materials to Realistic Situations AV/Multimedia Materials Internet Field Trips Field Trips Essay Assignments Directed Research Quizzes and Exams	Multiple-Choice Exam Graded Essay Graded Essay Exam Assignments Graded Research Project Individual or Group Presentation Graded Class Discussion Graded Case Study Graded Application of Lecture Materials to Realistic Situations ("Skull Session")
2. Identify the needs, responsibilities, and importance of fire prevention as part of an overall mix of fire protection.	Assigned Readings Lectures Discussions Case Study Analysis Application of Materials to Realistic Situations AV/Multimedia Materials Internet Field Trips Field Trips Essay Assignments Directed Research Quizzes and Exams	Multiple-Choice Exam Graded Essay Graded Essay Exam Assignments Graded Research Project Individual or Group Presentation Graded Class Discussion Graded Case Study Graded Application of Materials to Realistic Situations ("Skull Session")

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
3. Describe the needs,	Assigned Readings	Multiple-Choice Exam
responsibilities and	Lectures	Graded Essay
importance of fire	Discussions	Graded Essay Exam
prevention	Case Study Analysis	Assignments
organizations.	Application of Lecture	Graded Research Project
	Materials to Realistic	Individual or Group
	Situations	Presentation
	AV/Multimedia Materials	Graded Class Discussion
	Internet Field Trips	Graded Case Study
	Field Trips	Graded Application of
	Essay Assignments	Lecture Materials to
	Directed Research	Realistic Situations ("Skull
	Quizzes and Exams	Session")
4. Identify minimum	Assigned Readings	Multiple-Choice Exam
professional	Lectures	Graded Essay
qualifications at the	Discussions	Graded Essay Exam
state and national levels		Assignments
for Fire Inspector, Fire	Application of Lecture	Graded Research Project
Investigator, and Public	Materials to Realistic	Individual or Group
Educator.	Situations	Presentation
	AV/Multimedia Materials	Graded Class Discussion
	Internet Field Trips	Graded Case Study
	Field Trips	Graded Application of
	Essay Assignments	Lecture Materials to
	Directed Research	Realistic Situations ("Skull
5 5 6 4 4 4	Quizzes and Exams	Session")
5. Define the elements of	Assigned Readings	Multiple-Choice Exam
a plan review program.	Lectures	Graded Essay
	Discussions	Graded Essay Exam
	Case Study Analysis	Assignments
	Application of Lecture	Graded Research Project
	Materials to Realistic	Individual or Group
	Situations AV/Multimedia Materials	Presentation Graded Class Discussion
	Internet Field Trips	
	Field Trips	Graded Application of
	Essay Assignments	Graded Application of Lecture Materials to
	Directed Research	Realistic Situations ("Skull
	Quizzes and Exams	Session")
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LEARNING OUT	COMES	LEARNING ACTIVITIES	EVALUATION METHODS
6. Identify releva	nt laws,	Assigned Readings	Multiple-Choice Exam
regulations, ru	les and	Lectures	Graded Essay
codes, and ex		Discussions	Graded Essay Exam
purposes and	uses.	Case Study Analysis	Assignments
		Application of Lecture	Graded Research Project
		Materials to Realistic	Individual or Group
	;	Situations	Presentation
		AV/Multimedia Materials	Graded Class Discussion
		Internet Field Trips	Graded Case Study
		Field Trips	Graded Application of
		Essay Assignments	Lecture Materials to
		Directed Research	Realistic Situations ("Skull
	(Quizzes and Exams	Session")
7. Discuss the im		Assigned Readings	Multiple-Choice Exam
of having train	_	Lectures	Graded Essay
programs for f		Discussions	Graded Essay Exam
prevention.		Case Study Analysis	Assignments
		Application of Lecture	Graded Research Project
		Materials to Realistic	Individual or Group
		Situations	Presentation
		AV/Multimedia Materials	Graded Class Discussion
		Internet Field Trips	Graded Case Study
		Field Trips	Graded Application of
		Essay Assignments	Lecture Materials to
		Directed Research	Realistic Situations ("Skull
		Quizzes and Exams	Session")
8. Design a medi		Assigned Readings	Multiple-Choice Exam
program direct		Lectures	Graded Essay
toward develo		Discussions	Graded Essay Exam
public awaren		Case Study Analysis	Assignments
education aim		Application of Lecture	Graded Research Project
prevention.		Materials to Realistic	Individual or Group
		Situations	Presentation
		AV/Multimedia Materials	Graded Class Discussion
		Internet Field Trips	Graded Application of
		Field Trips	Graded Application of
		Essay Assignments	Lecture Materials to
		Directed Research	Realistic Situations ("Skull
		Quizzes and Exams	Session")

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
9. Discuss and design	Assigned Readings	Multiple-Choice Exam
programs directed	Lectures	Graded Essay
toward primary and	Discussions	Graded Essay Exam
secondary education	Case Study Analysis	Assignments
aimed at fire prevention	Application of Lecture	Graded Research Project
awareness.	Materials to Realistic	Individual or Group
	Situations	Presentation
	AV/Multimedia Materials	Graded Class Discussion
	Internet Field Trips	Graded Case Study
	Field Trips	Graded Application of
	Essay Assignments	Lecture Materials to
	Directed Research	Realistic Situations ("Skull
	Quizzes and Exams	Session")
10. Describe the role of	Assigned Readings	Multiple-Choice Exam
model codes and	Lectures	Graded Essay
explain the NFPA	Discussions	Graded Essay Exam
occupancy classification	Case Study Analysis	Assignments
system of the Life	Application of Lecture	Graded Research Project
Safety Code.	Materials to Realistic	Individual or Group
	Situations	Presentation
	AV/Multimedia Materials	Graded Class Discussion
	Internet Field Trips	Graded Case Study
	Field Trips	Graded Application of
	Essay Assignments	Lecture Materials to
	Directed Research	Realistic Situations ("Skull
	Quizzes and Exams	Session")
11. Describe the NFPA Life	Assigned Readings	Multiple-Choice Exam
Safety Code and its	Lectures	Graded Essay
indexing structure.	Discussions	Graded Essay Exam
	Case Study Analysis	Assignments
	Application of Lecture	Graded Research Project
	Materials to Realistic	Individual or Group
	Situations AV/Multimedia Materials	Presentation Graded Class Discussion
	Internet Field Trips	Graded Class Discussion
	Field Trips	Graded Case Study
	Essay Assignments	Graded Application of Lecture Materials to
	Directed Research	Realistic Situations ("Skull
	Quizzes and Exams	Session")
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LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
12. Explain the code	Assigned Readings	Multiple-Choice Exam
development process at	Lectures	Graded Essay
the local, state and	Discussions	Graded Essay Exam
national levels.	Case Study Analysis	Assignments
	Application of Lecture	Graded Research Project
	Materials to Realistic	Individual or Group
	Situations	Presentation
	AV/Multimedia Materials	Graded Class Discussion
	Internet Field Trips	Graded Case Study
	Field Trips	Graded Application of
	Essay Assignments	Lecture Materials to
	Directed Research	Realistic Situations ("Skull
	Quizzes and Exams	Session")
13. Explain in detail the ten	Assigned Readings	Multiple-Choice Exam
(10) fundamental	Lectures	Graded Essay
concepts of life safety.	Discussions	Graded Essay Exam
	Case Study Analysis	Assignments
	Application of Lecture	Graded Research Project
	Materials to Realistic	Individual or Group
	Situations	Presentation
	AV/Multimedia Materials	Graded Class Discussion
	Internet Field Trips	Graded Case Study
	Field Trips	Graded Application of
	Essay Assignments	Lecture Materials to
	Directed Research	Realistic Situations ("Skull
44 Calaulata a saura ant	Quizzes and Exams	Session")
14. Calculate occupant	Assigned Readings	Multiple-Choice Exam
loads, exit capacities and travel distances for	Lectures Discussions	Graded Essay
	Case Study Analysis	Graded Essay Exam Assignments
individual occupancies.		
	Application of Lecture Materials to Realistic	Graded Research Project Individual or Group
	Situations	Presentation
	AV/Multimedia Materials	Graded Class Discussion
	Internet Field Trips	Graded Class Discussion Graded Case Study
	Field Trips	Graded Case Study Graded Application of
	Essay Assignments	Lecture Materials to
	Directed Research	Realistic Situations ("Skull
	Quizzes and Exams	Session")
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LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
15. Explain the features of	Assigned Readings	Multiple-Choice Exam
fire protection and	Lectures	Graded Essay
building services as	Discussions	Graded Essay Exam
found in the Life Safety	Case Study Analysis	Assignments
Code.	Application of Lecture	Graded Research Project
	Materials to Realistic	Individual or Group
	Situations	Presentation
	AV/Multimedia Materials	Graded Class Discussion
	Internet Field Trips	Graded Case Study
	Field Trips	Graded Application of
	Essay Assignments	Lecture Materials to
	Directed Research	Realistic Situations ("Skull
	Quizzes and Exams	Session")
16. Describe the role and	Assigned Readings	Multiple-Choice Exam
responsibilities of the	Lectures	Graded Essay
state and/or local Fire	Discussions	Graded Essay Exam
Marshall's Office.	Case Study Analysis	Assignments
	Application of Lecture	Graded Research Project
	Materials to Realistic	Individual or Group
	Situations	Presentation
	AV/Multimedia Materials	Graded Class Discussion
	Internet Field Trips	Graded Case Study
	Field Trips	Graded Application of
	Essay Assignments	Lecture Materials to
	Directed Research	Realistic Situations ("Skull
17.0	Quizzes and Exams	Session")
17. Calculate the area and	Assigned Readings	Multiple-Choice Exam
height requirements of	Lectures	Graded Essay
building using the	Discussions Cook Study Analysis	Graded Essay Exam
BOCA Code.	Case Study Analysis	Assignments
	Application of Lecture	Graded Research Project
	Materials to Realistic	Individual or Group
	Situations	Presentation Graded Class Discussion
	AV/Multimedia Materials	Graded Class Discussion
	Internet Field Trips	Graded Case Study Graded Application of
	Field Trips Essay Assignments	Lecture Materials to
	Directed Research	Realistic Situations ("Skull
	Quizzes and Exams	Session")
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LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
18. Describe the impact of	Assigned Readings	Multiple-Choice Exam
ADA on Life Safety.	Lectures	Graded Essay
	Discussions	Graded Essay Exam
	Case Study Analysis	Assignments
	Application of Lecture	Graded Research Project
	Materials to Realistic	Individual or Group
	Situations	Presentation
	AV/Multimedia Materials	Graded Class Discussion
	Internet Field Trips	Graded Case Study
	Field Trips	Graded Application of
	Essay Assignments	Lecture Materials to
	Directed Research	Realistic Situations ("Skull
	Quizzes and Exams	Session")

At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Associate Vice President of Academic Affairs. The benchmark for each learning outcome is that 70% of students will meet or exceed outcome criteria.

SEQUENCE OF TOPICS:

- 1. Fire Prevention organizations
- 2. Organization of a fire prevention bureau
- 3. Building codes and fire prevention
- 4. Fire codes and fire prevention
- 5. The Code Making Process
- 6. The Life Safety Code
- 7. Hazards
- 8. Occupancies
- 9. Fire Protection and Services
- 10. Inspections
- 11. Inspection Procedures
- 12. PA & Local Fire Regulations
- 13. BOCA Building Codes & BOCA Fire Code
- 14. The Plans Review Process

LEARNING MATERIALS:

IFSTA. (2009). Fire Inspection and Code Enforcement (7th ed.). IFSTA.

Textbooks are selected each semester at the discretion of the division.

- Life Safety Codes
- BOCA National Building Code
- BOCA Fire Prevention Code
- National Fire Codes
- OSHA Regulations

Other learning materials may be required and made available directly to the student and/or via the College's Libraries and/or course management system.

COURSE APPROVAL:

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Prepared by: Angela M. Ambers-Henderson Date: 9/1998
Revised by: Benn Prybutok Date: 2/2/2009
Revised by: Benn Prybutok Date: 2/2013

VPAA/Provost or designee Compliance Verification:

Victoria L. Bastecki-Perez, Ed.D. Date: 2/25/2013

Revised by: Jayden Sampson Date: 12/16/2017 VPAA/Provost or designee Compliance Verification: Date: 12/18/2017

This course is consistent with Montgomery County Community College's mission. It was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.