COURSE TITLE: Building Construction for the Fire Service
COURSE NUMBER: FFP 2120

COURSE DESCRIPTION (with prerequisites):
This course introduces the student to building codes in relation to fire protection. Standards to eliminate fire problems prior to construction are emphasized. The relationships between the building inspection and fire protection agencies, plus fire extinguishing techniques in all types of building construction, are discussed. 3 Semester Credit Hours

NAME(S) OF INSTRUCTORS:
Program Availability

EFFECTIVE ACADEMIC YEAR:
2012-13

REQUIRED TEXTBOOKS AND INSTRUCTIONAL SUPPLIES:
Building Construction for the fire Service, Third Edition by: Francis L. Brannigan

GRADING POLICY:
The standing of a student in each course is expressed by one of the following letters and corresponding grading system:
A – 90 – 100
B – 80 – 89
C – 70 – 79
D – 60 – 69
F – 59 or less
The Chipola Catalog provides policies and procedures regarding the grading system. A student’s Grade Point Average is derived from the grading system/quality point scale.

ATTENDANCE AND WITHDRAWAL POLICIES:
Chipola College expects regular attendance of all students. Students who are absent from classes for any reason other than official college activities must satisfy the instructor concerned that the absence was due to illness or other clearly unavoidable reasons. Otherwise, the student may suffer grade loss at the discretion of the instructor. Chipola policy allows each instructor to specify in the Instructor First Day Handout whether or not an absence is excusable and what affect the absence or tardy may have on the grade.
A student is allowed to repeat a course a maximum of three (3) times. **On the third attempt a student (1) must bear the full cost of instruction (unless waived by Student Services), (2) cannot withdraw, and (3) must receive a grade.**

**MAKE-UP POLICY:**
Chipola allows each instructor to specify in the Instructor First Day Handout the makeup policy.

**ACADEMIC HONOR CODE POLICY:**
Students are expected to uphold the Academic Honor Code. Chipola College’s Honor Code is based on the premise that each student has the responsibility to (1) uphold the highest standards of academic honesty in his/her own work; (2) refuse to tolerate academic dishonesty in the college community; and (3) foster a high sense of honor and social responsibility on the part of students. Further information regarding the Academic Honor Code may be found in the Chipola Catalog, Student Governance section.

**STUDENTS WITH DISABILITIES POLICY:**
Chipola College is committed to making all programs and facilities accessible to anyone with a disability. Chipola’s goal is for students to obtain maximum benefit from their educational experience and to effectively transition into the college environment. Students with disabilities are requested to voluntarily contact the Office of Students with Disabilities to complete the intake process and determine their eligibility for reasonable accommodations.

**LIBRARY AND ON-LINE REFERENCE MATERIALS:**
The library is a comprehensive learning resource center providing information in print, electronic, and multimedia format to support the educational objectives of the College. On-line catalogs, e-books and electronic databases can be accessed by using the LINCCWeb icon on the Chipola Library website at [www.chipola.edu/library](http://www.chipola.edu/library). If you have questions about database usage consult the “How to Use the Chipola Databases” on the Library website or call the Library at 850/718-2274 during regular hours. Library hours are posted each semester at the building entrance and on the Library website. See your Instructor First Day Handout for individual instructor recommendations and resources.

**TECHNOLOGY RESOURCES:**
The Information Technology Center, located in the library, is equipped with computer workstations. Lab hours are posted each semester at the building entrance and on the Library website. The ACE Lab, located in Building L, is available for tutoring and is equipped with computer workstations. Lab hours are posted each semester at the room entrance. The college’s learning management system is Desire 2 Learn (d2l). Classes become available on d2l on the first day of the semester. It is the student’s responsibility to log onto the d2l system the first day of class to establish the first day of attendance and to check announcements. For further information, contact your instructor or the Director of Online Learning.
ELECTRONIC DEVICE USAGE:
All electronic devices such as cell phones, beepers, pagers, and related devices are to be silenced prior to entering classrooms and/or laboratories to avoid disruption. Should it become necessary for a student to leave his/her “device” on to send or receive an emergency call and/or text message, the student must inform the instructor prior to class. If the student finds it necessary to send and/or receive an emergency call and/or text message during class/lab time, he/she is instructed to take all books and belongings and step outside the classroom to deal with the situation. To minimize classroom disruption and the distraction to classmates, the student will not be permitted to reenter the classroom during that class period. Any time a test is being administered, all such devices must be turned off and put away. If a device is seen or heard during an exam, a score of zero will be given for that exam. Initial and repeated infractions may result in disciplinary action.

DISCIPLINE SPECIFIC COMPETENCIES / LEARNING OUTCOMES:
FFP 2120 is not a general education core course, but is a core Fire Science Course in the area of Fire Science Technology.

1. The student will discuss the attitudes, pre-planning and safety required to respond to building fires.
2. The student will know principles of building construction.
3. The student will discuss reasons for studying building construction.
4. The student will know definitions of loads.
5. The student will discuss fire characteristics of materials.
6. The student will know the definitions of combustibles.
7. The student will know types of forces applied to materials.
8. The student will discuss composites.
9. The student will describe structural elements.
10. The student will have a general knowledge of columns, walls, roofs, arches, frames, shells/domes and connections.
11. The student will have a basic knowledge of wood construction.
12. The student will have a basic knowledge of ordinary construction.
13. The student will have a basic knowledge of garden apartments and other related structures.
14. The student will discuss the principles of fire resistance.
15. The student will have a basic knowledge of steel construction.
16. The student will have a basic knowledge of concrete construction.
17. The student will understand the basic principles of fire growth.
18. The student will know considerations for smoke and fire containment.
19. The student will have a basic knowledge of high-rise construction.
20. The student will have a basic knowledge of trusses.
21. The student will define the different types of trusses.
22. The student will discuss the various types of sprinkler systems.
23. The student will know the requirements and principles of rack storage.
<table>
<thead>
<tr>
<th>COURSE-LEVEL STUDENT LEARNING OUTCOMES FOR FFP 2120</th>
<th>DISCIPLINE-SPECIFIC GENERAL EDUCATION COMPETENCIES</th>
<th>ASSESSMENT METHODS FOR COURSE LEVEL STUDENT LEARNING OUTCOMES</th>
<th>LEARNING ARTIFACTS FOR AA PROGRAM ASSESSMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The student will discuss the attitudes, pre-planning and safety required to respond to building fires.</td>
<td>This course is not a General Education core Course. It is designed to enable students to meet specific competencies identified in the State of Florida DOE Student Performance Standards.</td>
<td>L, SD, S, CK, T</td>
<td></td>
</tr>
<tr>
<td>2. The student will know principles of building construction</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. The student will discuss reasons for studying building construction.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. The student will know definitions of loads.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. The student will discuss fire characteristics of materials.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. The student will know the definitions of combustibles.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. The student will know types of forces applied to materials.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. The student will discuss composites.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. The student will describe structural elements.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. The student will have a general knowledge of columns, walls, roofs, arches, frames, shells/domes and connections.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. The student will have a basic knowledge of wood construction</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. The student will have a basic knowledge of ordinary construction.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13. The student will have a basic knowledge of garden apartments and other related structures.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14. The student will discuss the principles of fire resistance.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15. The student will have a basic knowledge of steel construction</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16. The student will demonstrate how to develop objectives for an active training program.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
17. The student will discuss goals of opening exercises.

18. The student will discuss ways of obtaining active participation.

19. The student will demonstrate the ability to prepare an effective lecture.

20. The student will use alternate methods of instruction.

21. The student will discuss major experiential learning approaches.

22. The student will discuss the major ingredients of an active learning program.

23. The student will discuss ingredients of a designed program.

24. The student will discuss tips for creative designs.

25. The student will discuss basic sequencing guidelines.

26. The student will demonstrate use of strategies/techniques to aid student retention.

27. The student will demonstrate how to organize design ideas, on a given topic into a complete program.

**Assessment Codes**

<table>
<thead>
<tr>
<th><strong>T</strong></th>
<th>Tests</th>
<th><strong>RPT</strong></th>
<th>Report/Presentation</th>
<th><strong>Proj.</strong></th>
<th>Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pre/Post</strong></td>
<td>Pre- and Post-Tests</td>
<td><strong>SP</strong></td>
<td>Skills Performance</td>
<td><strong>Exp.</strong></td>
<td>Experiments</td>
</tr>
<tr>
<td><strong>OT</strong></td>
<td>Objective Tests</td>
<td><strong>SD</strong></td>
<td>Skills Demonstration</td>
<td><strong>Cap. Proj.</strong></td>
<td>Capstone Project</td>
</tr>
<tr>
<td><strong>UT</strong></td>
<td>Unit Tests</td>
<td><strong>W</strong></td>
<td>Writing Assignments</td>
<td><strong>Cap. Course</strong></td>
<td>Capstone Course</td>
</tr>
<tr>
<td><strong>Q</strong></td>
<td>Quizzes</td>
<td><strong>E</strong></td>
<td>Essays</td>
<td><strong>Prac.</strong></td>
<td>Practicum</td>
</tr>
<tr>
<td><strong>F</strong></td>
<td>Final Examination</td>
<td><strong>DE</strong></td>
<td>Documented Essays</td>
<td><strong>Intern.</strong></td>
<td>Internship</td>
</tr>
<tr>
<td><strong>CF</strong></td>
<td>Cumulative Final</td>
<td><strong>RP</strong></td>
<td>Research papers</td>
<td><strong>H</strong></td>
<td>Homework</td>
</tr>
<tr>
<td><strong>EX</strong></td>
<td>Departmental Exam</td>
<td><strong>J</strong></td>
<td>Jury</td>
<td><strong>PS</strong></td>
<td>Problem Solving</td>
</tr>
<tr>
<td><strong>SE</strong></td>
<td>Nat'l or State Standardized Exam</td>
<td><strong>R</strong></td>
<td>Recital</td>
<td><strong>DB</strong></td>
<td>Discussion Board</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>BO</strong></td>
<td>Behavioral Observation</td>
<td><strong>Clin.</strong></td>
<td>Clinicals</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>CS</strong></td>
<td>Case Study</td>
<td><strong>CP</strong></td>
<td>Case Plan</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Port.</strong></td>
<td>Portfolio</td>
<td><strong>Obs.</strong></td>
<td>Teacher Observation</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Sk. Check</strong></td>
<td>Skills Check-off</td>
<td><strong>Curriculum Frameworks</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>JP</strong></td>
<td>Judged</td>
<td><strong>Performance/Exhibition</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Means of Accomplishing Student Learning Outcomes:**

Lecture
PowerPoint presentations
Role play
Demonstrations
Hands on writing projects

**Assignment and/or Course Outline**

See your Instructor First Day Handout for individual instructor assignment schedule.