2020FA FIRT 1327 BUILDING CONSTRUCTION
SYLLABUS
El Centro College/ Gilbreath –Reed Career Technical Center

Instructor Information
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Course Information
Course Title: Building Construction for the Fire Service
Course Number: FIRT 1327
Section Number: 51281
Semester/Year: FALL 2020
Credit Hours: 3
Class Meeting Time/Location: 16 weeks M,W 11:25am-12:45pm.
Certification Date: Check My Class Roster on eConnect for date.
Last Day to Withdraw: Check My Class Roster on eConnect for date.

Course Prerequisites
Admittance to college.

Course Description
This course provides a comprehensive study of building construction as related to firefighting and life safety. The elements of construction and design are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies.
Student Learning Outcomes

- Understand construction as it relates to firefighting and life safety.
- Identify key structural elements and the loads they bear.
- Identify methods and materials of construction and how they are hazards.
- Explain the difference between fire and building codes.
- Understand fire behavior and fire protection systems.
- Identify the five construction types recognized by the fire service.
- Identify the hazards associated with specific occupancies.
- Identify collapse hazards and apply risk-analysis to fire-ground safety.

Texas Core Objectives

The College defines essential knowledge and skills that students need to develop during their college experience. These general education competencies parallel the Texas Core Objectives for Student Learning. In this course, the activities you engage in will give you the opportunity to practice two or more of the following core competencies:

1. **Critical Thinking Skills** - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information

2. **Communication Skills** - to include effective development, interpretation, and expression of ideas through written, oral, and visual communication

3. **Empirical and Quantitative Skills** - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

4. **Teamwork** - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal

5. **Personal Responsibility** - to include the ability to connect choices, actions, and consequences to ethical decision-making

6. **Social Responsibility** - to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

Required Course Materials

Textbook:

*Brannigan’s Building Construction for the Fire Service-Fifth Edition, 2015 (Required)*
Note: A student of this institution is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Graded Work
The tables below provide a summary of the graded work in this course and an explanation of how your final course grade will be calculated.

GRADES: Weighted grade use:

<table>
<thead>
<tr>
<th>Exams</th>
<th>65%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments</td>
<td>20%</td>
</tr>
<tr>
<td>Participation</td>
<td>15%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

Summary of Graded Work

<table>
<thead>
<tr>
<th>Assignments</th>
<th>Points</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short Report on LODD</td>
<td>1 @ 50 points</td>
<td>50 points</td>
</tr>
<tr>
<td>Chapter Quizzes</td>
<td>10 @ 25 points each</td>
<td>250 points</td>
</tr>
<tr>
<td>Discussions/class participation</td>
<td>1 @ 100 points each</td>
<td>100 points</td>
</tr>
<tr>
<td>Team Research Project</td>
<td>1 @ 100 points each</td>
<td>100 points</td>
</tr>
</tbody>
</table>

TOTAL: 500 points

Final Grade

<table>
<thead>
<tr>
<th>Points</th>
<th>Percentages</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>450-500</td>
<td>90-100%</td>
<td>A</td>
</tr>
<tr>
<td>391-449</td>
<td>80-89%</td>
<td>B</td>
</tr>
<tr>
<td>341-390</td>
<td>70-79%</td>
<td>C</td>
</tr>
<tr>
<td>290-340</td>
<td>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>0-289</td>
<td>0-59%</td>
<td>F</td>
</tr>
</tbody>
</table>

Description of Graded Work

Short Reports: You will be given an assignment to do a short report (minimum 3 paragraphs) on a “Line of Duty Death” resulting from a building collapse or tragic event. You will need to email the report and be prepared to present the info in class.
Quizzes: The chapter quizzes each have 18-25 multiple-choice questions you must answer within a 40-minute time-limit. You will be allowed two attempts at the quiz and your highest score will be counted towards your final course grade.

Final Project: The final project is for your team to research a special subject of your teams choosing related in the Type of Building Construction.

Attendance and Your Final Grade
You will be expected to meet when we have a scheduled class meeting, be prepared to participate and discuss the chapter subject with your classmates.

Late Work Policy
All assignments will have a due date. All assignments turned in after two weeks late will be penalized 5-10 points.

Other Course Policies
Institutional Policies
Institutional Policies relating to this course can be accessed using the link below. These policies include information about tutoring, Disabilities Services, class drop and repeat options, Title IX, and more.

El Centro Institutional Policies (http://www.elcentrocollege.edu/syllabipolicies)

Course Schedule
Listing of Topics by Week

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Readings &amp; Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>Orientation, Assignments</td>
<td>Chapter 2</td>
</tr>
<tr>
<td>3-4</td>
<td>Type I Construction</td>
<td>Chapters3 &amp;11</td>
</tr>
<tr>
<td>5-6</td>
<td>Type II Construction</td>
<td>Chapters 10</td>
</tr>
<tr>
<td>7-8</td>
<td>Type III Construction</td>
<td>Chapters 9 &amp; 14</td>
</tr>
<tr>
<td>9-10</td>
<td>Type IV Construction</td>
<td>Chapters 8</td>
</tr>
<tr>
<td>Week</td>
<td>Topic</td>
<td>Readings &amp; Assignments</td>
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<td>-------</td>
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<td>------------------------------------------------</td>
</tr>
<tr>
<td>11-12</td>
<td>Type V Construction</td>
<td>Chapters 6 &amp; 7</td>
</tr>
<tr>
<td>13-14</td>
<td>Fire Behavior in Buildings</td>
<td>Chapters 5</td>
</tr>
<tr>
<td>15-16</td>
<td>Final – Team Building Type Research project</td>
<td>Present Research topics to classmates.</td>
</tr>
</tbody>
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10/21/19 Version