FIRE TECHNOLOGY 1   FIRE PROTECTION ORGANIZATION   FALL 2012   #76922
Tuesdays and Thursdays  11:10 – 12:30 Room 1605; Office hours Tuesday and Thursdays 10:15 – 11:05 or by appointment  Room 1523  Instructor Craig Schwinge  477-3700 x 1380#  crschwin@cabrillo.edu

COURSE OBJECTIVES

To provide the student with an introduction to fire service organization and operations.  Topics will include an overview of fire protection planning and resources, terminology, emergency scene management, prevention, administration, fire chemistry and physics, career opportunities and others.  Students are required to read the text “Introduction to Fire Protection”, by Klinoff  4th edition.

Students needing accommodations should contact the instructor as soon as possible. As required by the Americans with Disabilities Act (ADA), accommodations are provided to insure equal opportunity for students with verified disabilities. If you need assistance with an accommodation, please contact Disabled Student Services, Room 810, (479-6379) or Learning Skills Program, Room 1073, (479-6220).

ATTENDANCE/PARTICIPATION: This course requires active participation each day of class so it is important for you to attend every class session, arrive on time, and come prepared.  Your participation not only enhances your own learning, it benefits other students in the class, especially when the class is doing group work.  Your level of participation is reflected in your grade and since you can’t participate if you are not in class, absences will also be reflected in your grade.  Students deciding not to attend are responsible for completing drop procedures.

IMPORTANT DATES:

Semester Dates:  August 27 – December 15
Holidays:  Thanksgiving November 22 - 23
Last day to add or drop (with a refund) full term classes:  September 8
Last day for students to withdraw without a “W” (full term course):  September 9
Withdrawal deadline with a “W” (full term course):  November 17
Deadline for pass/no pass option:  September 29
Finals Week:  December 10 - 15

GRADING SCHEDULE

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
<th>Grade Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm exam</td>
<td>100</td>
<td>A = 315 – 284 points</td>
</tr>
<tr>
<td>Department report</td>
<td>75</td>
<td>B = 283 – 253 points</td>
</tr>
<tr>
<td>Organization and Operations essay</td>
<td>40</td>
<td>C = 252 – 222 points</td>
</tr>
<tr>
<td>Final exam</td>
<td>100</td>
<td>D = 221 - 191 points</td>
</tr>
<tr>
<td>Total available</td>
<td>315</td>
<td>F = 191 and below</td>
</tr>
<tr>
<td>Extra credit available</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

No make-up exams without prior approval.  Late assignments will receive one-half credit.  All written work is to be typed and well organized.
DEPARTMENT REPORT

Prepare a report on a fire department of your choice and include at least the following information:
1. Demographics (city/county/district area, population, number of fire stations)
2. Organization chart showing bureaus/divisions/areas of responsibilities and rank structure
3. Apparatus (numbers, types, specialized rigs, main manufacturers)
4. Equipment (SCBA type, tools, EMS equipment, hose sizes, ladders, etc)
5. Number of and/or percentage of type of calls annually
6. Alarm assignments for EMS, structure fires, rescues, etc.
7. Work schedule and staffing levels
8. Any additional information (history, budget information, mission statement, mutual aid agreements, maps, future planning for growth or services, etc.)

This report is inclusive of the entire department, not just information about the single fire station that you visit. A department’s annual report or visit to an administrative office may be good sources of information. Printed information from the Internet or annual report is acceptable but not to replace the body of your report, which should be in your own words. Due date October 16, 2021.

ORGANIZATION AND OPERATIONS ESSAY

Write a three-page essay on fire service organization and emergency operations by selecting one of the following:
- Define the terms chain of command, unity of command and standard operating procedures. Discuss the importance of each and why they are necessary for safety and effectiveness.
- Describe the Incident Command System and the importance of emergency scene management.
- Discuss the need for regular training and fitness for safe and efficient operations.
- Discuss the importance of good communication and coordination on the emergency scene.
- Describe the duties of an Engine Company and a Truck Company.

Utilize information from the text, lectures, videos, fire service references, periodicals and other firefighters. Due date November 20, 2012.

EXTRA CREDIT OPPORTUNITY:

- Research a noteworthy fire service incident and submit a type-written three page report on the details of what happened, the fire department’s actions and lessons learned. Appropriate examples include the Summit Fire, Oakland Hills Fire, 9/11, Loma Prieta earthquake, The Station Fire, or any line of duty death incident (NIOSH). Minimum of three pages.
- A book report of Report from Engine Company 82, Report from Ground Zero, Young Men and Fire or another fire-service related non-fiction book with the instructor’s permission.
- Complete the CPAT during the semester and write a two page report.
- Be an interviewee in a mock oral exercise and submit a report or video of the mock interview.
- Obtain, complete and submit a Firefighter Written Entrance exam book (Borders, Amazon, etc).
- Become a CPR instructor during the course of the semester
- Become a CERT volunteer during the course of the semester
- Complete ICS 100, 200 at www.fema.gov

Twenty (20) points available; report may be turned in any time up until 12/6/12.
<table>
<thead>
<tr>
<th>DATE</th>
<th>SESSION</th>
<th>TOPIC</th>
<th>ASSIGNMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/28 &amp; 8/30</td>
<td>1</td>
<td>Introduction, Course outline review</td>
<td>Read Chapters 1 and 2, study Glossary</td>
</tr>
<tr>
<td>8/28 &amp; 8/30</td>
<td></td>
<td>FT Education and Firefighter selection process</td>
<td></td>
</tr>
<tr>
<td>9/4 &amp; 9/6</td>
<td>2</td>
<td>Fire Protection Career opportunities</td>
<td>Read Chapter 3, study Glossary</td>
</tr>
<tr>
<td>9/11 &amp; 9/13</td>
<td>3</td>
<td>Public Fire Protection</td>
<td>Read Chapter 4, study Glossary</td>
</tr>
<tr>
<td>9/18 &amp; 9/20</td>
<td>4</td>
<td>Chemistry and Physics of Fire</td>
<td>Read Chapter 5, study Glossary</td>
</tr>
<tr>
<td>9/25 &amp; 9/27</td>
<td>5</td>
<td>Public and Private Support Organizations</td>
<td>Read Chapters 6 and 7, study Glossary</td>
</tr>
<tr>
<td>10/2 &amp; 10/4</td>
<td>6</td>
<td>Fire Department Resources</td>
<td>Prepare for Midterm on Chapters 1 – 7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fire Department Administration</td>
<td></td>
</tr>
<tr>
<td>10/9 &amp; 10/11</td>
<td>7</td>
<td>MIDTERM</td>
<td></td>
</tr>
<tr>
<td>10/16 &amp; 10/18</td>
<td>8</td>
<td>REPORT PRESENTATIONS</td>
<td>Read Chapter 8, study Glossary</td>
</tr>
<tr>
<td>10/23 &amp; 10/25</td>
<td>9</td>
<td>Support Functions</td>
<td>Read Chapter 9, study Glossary</td>
</tr>
<tr>
<td>10/30 &amp; 1/1</td>
<td>10</td>
<td>Training</td>
<td>Read Chapter 10, study Glossary</td>
</tr>
<tr>
<td>11/6 &amp; 11/8</td>
<td>11</td>
<td>Fire Prevention</td>
<td>Read Chapter 11, study Glossary</td>
</tr>
<tr>
<td>11/13 &amp; 11/15</td>
<td>12</td>
<td>Codes and Ordinances</td>
<td>Read Chapter 12, study Glossary</td>
</tr>
<tr>
<td>11/20</td>
<td>13</td>
<td>Fire Protection Systems and Equipment</td>
<td>Read Chapter 13, study Glossary</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ESSAY DUE</td>
<td></td>
</tr>
<tr>
<td>11/27 &amp; 11/29</td>
<td>14</td>
<td>Emergency Incident Management</td>
<td>Read Chapter 14, study Glossary</td>
</tr>
<tr>
<td>12/4 &amp; 12/6</td>
<td>15</td>
<td>Emergency Operations</td>
<td>Prepare for Final Chpts 8-14</td>
</tr>
<tr>
<td>12/13</td>
<td>16</td>
<td>FINAL EXAM</td>
<td>1000 – 1250 hours</td>
</tr>
</tbody>
</table>

Weekly lecture topics may vary or be combined with other weeks. It is advisable to stay ahead of the assigned reading to accommodate any changes to class topics and discussions.
DEPARTMENT REPORT GUIDE/WORKSHEET

Department name________________ Station #_____ Person spoke with______________

Mission Statement: ________________________Motto:______________________________

Demographics and department information:

Number of fire stations_________ Number of fire personnel______
Square miles protected_________ Population____________________
Staffing per day_______________ Staffing per apparatus__________
Work schedule________________

Organization Chart (photo copy or on-line print out OK)

Bureaus/divisions
Ranks

Apparatus

Number of Engines _______ Major manufacturers__________________ Years built____
Number of Trucks, Water Tenders, Brush patrols, Rescue, Air, Light and/or other specialized
rigs________________________

Equipment

Hose sizes ___________ Lengths________
Ladder sizes ________
Typical Tools ________________________________

EMS Equipment (airway, trauma, AED, etc) ________________________________

SCBA type __________ SCBA bottle size(s) ______
Specialized tools for extrication, rescue, hazardous materials, etc. ___________

Department annual call volume: __________________________

EMS ____
FIRE_____
HAZMAT_____
Rescue ________
Alarms _______
Citizen assist/service call _____
Others __________

Alarm assignments for:

EMS, structure fires, rescue, wildland fires, etc. (e.g. Structure Fire: 2 – Engines, 1 – Truck, 1 – BC)

Additional information:

Maps, mutual aid, recent changes (ALS engines, etc), budget, history, etc.