Articulation Request and Agreement

This request and agreement is submitted for consideration of the following course as an articulated course at Columbia College. Students would receive course credit at Columbia College.

Directions:
1. Use a separate form for each course.
2. Attach the course outline for the course.
3. Attach the course final if course is to be considered for credit.
4. Mail to: Dean of Instructional Services, Career Technical Education
   11600 Columbia College Drive
   Sonora, CA 95370

Completed by High School Instructor

<table>
<thead>
<tr>
<th>High School/ROP:</th>
<th>Calaveras County ROP - Bret Harte High School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instructor Name:</td>
<td>Jim Rosbrook</td>
</tr>
<tr>
<td>Telephone Number:</td>
<td>209-352-0216 (cell)</td>
</tr>
<tr>
<td>Email Address:</td>
<td><a href="mailto:jrosbrook@bhhs.k12.ca.us">jrosbrook@bhhs.k12.ca.us</a> &amp; <a href="mailto:amfdchief220@outlook.com">amfdchief220@outlook.com</a></td>
</tr>
<tr>
<td>Address:</td>
<td>364 Murphys Grade Road</td>
</tr>
<tr>
<td></td>
<td>Altaville, Ca. 95221</td>
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High School / ROP Course Title: Fire Tech I (IA293)

High school / ROP Course Description:
This course will cover introductory concepts in: introduction to fire protection; career opportunities in fire protection and related fields; philosophy and history of the fire protection; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; fire strategy and tactics; and components of the incident command system.

<table>
<thead>
<tr>
<th>College Course Title:</th>
<th>Fire 1 (0001)</th>
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<tbody>
<tr>
<td>College Units:</td>
<td>3 units</td>
</tr>
<tr>
<td>HS/ROCP Credits:</td>
<td>10 units</td>
</tr>
<tr>
<td><strong>College Prerequisite(s):</strong></td>
<td>None</td>
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**Advisories/Recommendations:**
Students are advised to complete additional hours in community classroom setting with local Fire Departments.

Agreements in place with:
- Murphys Fire Protection District
- Altaville - Melones Fire District
- Copperopolis Fire District

**Course Content**
Fall Semester: (66 hours)

- **Week 1:** introduction to course  
  Firefighter Orientation  
  Assignments: Work Sheets & Quiz  
  Homework: Work Sheet for Chapter 1 Firefighter Orientation

- **Week 2:** Firefighter Safety and Health  
  Assignments: Work Sheets & Quiz  
  Homework: Work Sheet for Chapter 2

- **Week 3:** Fire Behavior  
  Assignments: Work Sheets & Quiz  
  Homework: Work Sheet for Chapter 3

- **Week 4:** Building Construction  
  Assignments: Work Sheets & Quiz  
  Home Work: Work Sheet for Chapter 4

- **Week 5 & 6:** Firefighter Personal Protective Equipment  
  Assignments: Work Sheets & Quiz  
  Home Work: Work Sheet for Chapters 5

- **Week 7 & 8:** 1-100 Introduction to Incident Command System  
  Assignments: Note Taking from Slide Presentation & Quiz  
  Home Work: Review of their Notes

- **Week 9:** Portable Fire Extinguishers  
  Assignments: Work Sheets & Quiz  
  Home Work: Work Sheet for Chapter 6

- **Week 10:** Ropes & Knots  
  Assignments: Work Sheets & Quiz  
  Home Work: Work Sheet for Chapter 6

- **Week 11,12 & 13:** Rescue & Extrication  
  Assignment 1: Work Sheets & Quiz
Assignment 2: Each Student went through Safety and Proper Techniques of Hand tools and Power Tools to Extricate victims from Vehicles.
Assignment 3: Performing Extrication Skills on Vehicles
Home Work: Work Sheet for Chapter 8

Week 14: Forecible Entry
Assignments: Work Sheets & Quiz
Home Work: Work Sheet for Chapter 9

Week 15: Blood Born Pathogens
Assignments: Exercises & Test

Week 16 & 17: Ground Ladders
Assignment 1: Work Sheets & Quiz
Assignment 2: Carrying and Raising of the 24',14' & Attic Ladders
Home Work: Work Sheet for Chapter 10

Week 18: Semester Final Exam

Spring Semester (66 hours)
Week 1 & 2: Ventilation
Assignment 1: Work Sheets & Quiz
Assignment 2: Type and Construct of Roofs and Buildings. Tool Familiarization.
Home Work: Work Sheet for Chapter 11

Week 3: Water Supply
Assignments: Work Sheets & Quiz
Home Work: Work Sheet for Chapter 12

Week 4 & 5: Fire Hose
Assignment 1: Work Sheets & Quiz
Assignment 2: Handling and Advancing Hose Lines. Types of Hose Rolls and Maintenance of Hose
Home Work: Work Sheets for Chapter 13

Week 6: Fire Streams
Assignments: Work Sheets & Quiz
Home Work: Work Sheet for Chapter 14

Week 7-11: Introduction to Fire Strategy & Tactics
Assignment 1: Size-up and Safety
Assignment 2: Rescue Considerations
Assignment 3: Familiarization with Class A, B, D Fires
Assignment 4: Company Level Fire Tactics
Assignment 5: Wildland Fire fighting

Week 12: Fire Detection, Alarm, and Suppression Systems

Week 13: Loss Control
Assignments: Work Sheets & Quiz
Home Work: Work Sheet for Chapter 17
Week 14: Protecting Fire Scene Evidence
Assignments: Work Sheets & Quiz
Home Work: Work Sheet for Chapter 18

Week 15 & 16: Fire Department Communications
Assignment 1: History of Fire Department Communications, Work Sheet & Quiz
Assignment 2: Use of Portable, Mobile and Base Stations
Home Work: Work Sheets for Chapter 19

Week 17: Fire Prevention and Public Education
Assignments: Work Sheets & Quiz
Home Work: Work Sheet for Chapter 20

Week 18: Semester Final

Competencies and Skill Requirements (Use additional pages as necessary)
At the conclusion of this course, the student should be able to:

Competencies and Skill Requirements (Use additional pages as necessary.) Where appropriate, please incorporate standards being used (e.g. CTE standards).

At the conclusion of this course, the student should be able to:

COURSE OBJECTIVES
The student shall be familiar with the general requirements and benefits of a career in the fire service.

1. Identify the common minimum educational, age, and residency requirements for a typical fire department.

2. List common work shifts and general working conditions found in the fire service.

3. List the typical fringe benefits associated with employment with the fire service.

4. Understand the usual promotional and educational opportunities with the fire service.

The student shall understand the historical background of the fire service in the United States and how the current fire service evolved.

1. Describe fire protection during the colonial days of the United States.

2. Describe fire protection during the early and late 19th century.

3. List the reasons that the fire service developed into a para-military organization.

4. Correlate early fire equipment development with the development of fire equipment today.

5. Identify at least five major fires in the United States and their subsequent impact on current fire codes and ordinances.

The student shall be familiar with the basic concept of combustion and fire.

1. Compare and contrast the classic triangle concept of fire versus the tetrahedron concept of fire.
2. List and identify characteristics of the three components of the fire triangle.
3. List and identify characteristics of three categories of fuel.
4. Describe the basic principles of fire spread and the conditions necessary for conflagrations.

The student shall have a basic knowledge of the federal, state, and local agencies that are either directly or indirectly involved with fire protection.
1. List at least six United States government agencies and how they impact the fire service.
2. Identify typical state agencies that deal with fire protection, and list at least three in California.
3. Describe how non-government associations and corporations can be directly involved with fire protection, and give two examples of such agencies.

The student shall understand the basic organization of a typical fire department.
1. Flow chart the typical fire department make up from the company level through the chief, with emphasis on chain-of-command.
2. List the common functional divisions or sections of a typical fire department, with a description of the responsibilities of each.
3. Compare and contrast the typical organization of a small fire department with volunteer firefighters against a large, fully paid fire department.
4. Identify the needs for proper record-keeping, and list at least five different records that the fire department must maintain.

The student shall have a basic knowledge of the Building Construction.
1. List the 7 common building materials.
2. Identify 5 types of construction classification and the corresponding strengths and weaknesses.
3. List the firefighter hazards related to building construction.

The student shall be familiar with common fire service apparatus and equipment.
1. List three general categories of pumper trucks and describe the uses of each.
2. List three general categories of ladder trucks and describe the advantages and disadvantages of each.
3. Identify at least five different types of miscellaneous support apparatus.
4. Identify and describe the common personal protective safety equipment required for a firefighter.

The student shall know the common extinguishing agents used by the fire service, and their basic application.
1. List the advantages and disadvantages of using water as an extinguishing agent.
2. Describe at least four other extinguishing agents besides water, how they would be applied, and when
they would be used.
The student shall know and demonstrate the common types of ropes and there uses.
1. Identify 4 different rope materials.
2. Describe typical rope maintenance.
3. Demonstrate proper rope tying techniques.
4. Participate in proper hoisting techniques activity.
5. Practice proper use of rescue rope & harness.

The student shall know the basic tactical priorities at a fire incident.
1. List fire suppression tactical priorities in order of performance.
2. Identify the basic concepts of each of the tactical operations required.

The student shall be familiar with the basic understanding of Blood Born Pathogens.
1. Describe what Blood Born Pathogens.
2. Define proper protection techniques.

The student shall be familiar with the basic parts of a ladders (single, extension, combination, pompeir).
1. List the four types of ladders.
2. Identify the three types of ladder construction.
3. Identify corresponding components of a ladder.
4. Demonstrate how to safely carry, raise, climb, and lower ladders.

The student shall be familiar with the basic fire protection systems found in buildings.
1. Describe the basic types and components of a fire sprinkler system.
2. List at least three different types of fire alarm systems and the characteristics of each.
3. Know the difference between a private water supply system and a public water supply system.
4. List at least three types of fire extinguishment systems other than water sprinklers.

Each student shall have a basic familiarization with the ISO Fire Department Grading Schedule.
1. Describe the purpose of the ISO Grading System.
2. List the major categories that ISO evaluates when grading a fire department.

| Measurement Methods (include any industry certification or licensure): |
| In order to receive Fire 1 - Columbia College Credit the student must: Pass the FIRE 1 final exam administered by the Columbia College faculty with a “C” or better. |
1) Tests
2) Quizzes
3) Portfolio
4) Written Reports
5) Oral Presentations
6) Group Problem Solving Assignments
8) Scenario based testing.
9) Skills Testing

Certificates:
1. ROP Certificate of Completion

Sample Textbooks or Other Support Materials (including Software):

Fire Service Orientation and Terminology, 4th edition (Publisher: Fire Protection Publications, Oklahoma State University)
Essentials of Fire Fighting 5th edition (Publisher: Fire Protection Publications, Oklahoma State University)
IFSTA Manuals

CC faculty Signature: [Signature] Date: 12/12/13

[Office use only.]
TUPs Code: [Office use only.]
Internal Tracking Number:

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Completed by Columbia College

This portion is completed after CC faculty and H.S. faculty meet and agree on the terms of the articulation agreement.

Department faculty: ☑ Approved ☐ Not Approved
Dean: ☑ Approved ☐ Not Approved
CTE Transition Coordinator: ☑ Approved ☐ Not Approved
Admissions and Records notification ☑ date: 12/17/13
High school notification: ☑ date: 12/17/13