**Sierra College**

**Fire Academy Certificate of Achievement**

**Item 1. Program Goals and Objectives**

The Fire Academy Certificate of Achievement is being created in response to students seeking recognition for completing Fire Academy Training who might currently hold a degree in Fire Technology but have not completed the Fire Academy. It is also being created to give recognition to Veterans who desire to obtain a fire academy certificate but do not wish to take any additional course work. The Fire Academy Certificate of Achievement is in line with Fire Technology Program Outcomes as listed below:

Fire Technology Program Outcomes:

* Analyze and apply measures to resolve problems in areas of fire suppression, fire prevention and EMS.
* Recognize the importance of ethics, professionalism and diversity within the fire technology field.
* Communicate effectively in both oral presentations and written reports.
* Demonstrate technical, cognitive, and psycho-motor skills necessary to achieve and maintain employment in the fire service.
* Demonstrate knowledge and understanding of the fire service industry.

**Item 2. Catalog Description**

This certificate program provides a comprehensive understanding of the skills necessary for successful employment in the Fire Service industry. This program is designed to meet the needs of students interested in seeking entry-level firefighting positions by completing a California State Fire Training Accredited Region Training Fire Academy. Fire Academy Certificate of Achievement Certification includes the completion of FIRE 100 and KIN 97. Correquisites for FIRE 100 include: FIRE 1 and HSCI 2 (Fire Protection Organization & Emergency Medical Technician). Career opportunities include: Seasonal Firefighter, Intern Firefighter, Volunteer Firefighter, and Career Firefighter. A certificate is designed to provide career technical skills; it is not equivalent to an Associate’s Degree.

Fire Academy (FIRE 100) Student Learning Outcomes:

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| --- |
| * Assess the role of a firefighter in fire department organizations; and then successfully integrate themselves into an appropriate role within the organization.
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| * Analyze and apply basic fire chemistry, and physics to extinguish different types of fires.
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| * Assess safety and risk management techniques to all functions and aspects of firefighting, personal protective equipment, fire suppression equipment and building construction.
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| * Demonstrate how to apply and maintain firefighting equipment used by firefighters in the suppression of different types of fires, rescues and hazard mitigation.
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| * Demonstrate the ability to take the basic laboratory skills learned and apply them in a methodical, expedient, safe and strategic manner in real life simulations.

Kinesiology (KIN 97, Fire Academy Physical Training) Student Learning Outcomes:

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| * Assemble various stress management techniques for common stressors in fire fighting.
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| * Evaluate proper nutrition for fire fighting.
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| * Assess prevention methods for injuries common to firefighters.
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| * Construct a workout that combines aerobic capacity and body composition management.
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**Item 3. Program Requirements**

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| --- | --- | --- | --- |
| Requirements | Dept. Name/# | Name | Units |
| FIRE 100 | FIRE 100 | Firefighter 1 Academy | 16 |
| KIN 97 | KIN 97 | Fire Academy Physical Training | 2.5 |
| Total Units Required |  | 18.5 |
| Program Advisory: Completion of FIRE 99 |  |

Proposed Sequence: Year 1, Fall = 18.5 units

TOTAL UNITS: 18.5 units

**Item 4. Master Planning**

A Fire Academy Certificate of Achievement is clearly in-line with Sierra College’s mission statement:

*Sierra College provides an academic environment that is challenging and supportive for students of diverse backgrounds, needs, abilities, and goals with a focus on access, equity, student-centered learning, and achievement. The college is committed to practicing diversity and inclusion, and recognizes that a diverse and inclusive curriculum and workforce promotes its educational goals and values. Institutional learning outcomes guide the college’s programs and services, encouraging students to identify and expand their potential by developing knowledge, skills, and values to be fully engaged and contributing members of the global community. Sierra prepares students by offering Associate’s and transfer degrees, certificates, career and technical education, foundational skills, as well as lifelong learning and enrichment.*

Over the past several years, students, particularly veteran’s, have requested the ability to use VA loans to aid in the cost of attending our Fire Academy, but have not been able to do so if they already had an Associate’s Degree and Fire Academy Training was not specifically tied to an award. By creating a Fire Academy Certificate of Achievement, regular and veteran students who do not wish to obtain an Associate’s Degree or a Fire Technology Certificate of Achievement would have the opportunity to receive recognition for their completion of the Fire Academy (FIRE 100 & KIN 97). Note: KIN 97 is a corequisite for FIRE 100. Fire Technology staff have met with Athletic Department staff who overwhelmingly support this this application for a Certificate of Achievement.

The Curriculum for FIRE 100 and KIN 97 is current and has been approved by the Chancellors office.

Current Sierra College Fire Technology awards include: AA/AS in Fire Technology, Certificate of Achievement in Fire Technology, and a Firefighter II Skills Certificate.

On March 16, 2016, at a regular Sierra College Fire Advisory Board meeting, representatives from the region and fire service industry unanimously approved moving forward with the application process for this award.

Labor Market Data:

Surveys of regional and surrounding fire departments have indicated a need for additional Seasonal and Intern Firefighters on a yearly basis. Survey departments include: South Placer Fire Protection District, Grass Valley Fire Department, Nevada City Fire Department, Nevada County Consolidated Fire Protection District, Placer Hills Fire Protection District, El Dorado Fire Protection District, El Dorado Hills FD, El Dorado County FD, Diamond Springs Fire Protection District, Marysville Fire Department, Forest Hill Fire Protection District, New Castle Fire Protection District, Cal Fire, Cordelia Fire Department, Marin County FD and Placer County FD. Currently, graduates of the Sierra College Fire Academy work for the aforementioned departments, many whom do not get a degree or certificate. Survey estimates indicate approximately 160 annual part-time fire service jobs and currently, Sierra and Yuba College Fire Academies only graduate 80 cadets to fill these 160 positions.

Regional Consortia Approval with minutes (Need approval)

**Item 5. Enrollment and Completer Projections**

Projected Annual Offerings of Core Courses:

|  |  |  |
| --- | --- | --- |
| Core Courses | # of Sections Annually | Annual Enrollment |
| FIRE 100 | 3 | 110 |
| KIN 97 | 3 | 110 |

**Item 6. Place of Program in Curriculum/Similar Programs**

This proposal does not create an entirely new program, but simply a new certificate that combines courses from two existing departments. Therefore, it should not have any significant impact on the other programs in our college service area. The justification for this certificate is in response student requests and Fire Advisory Board recommendations.

**Item 7. Similar Programs at Other Colleges**

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| --- | --- | --- |
| **College** | **Certificate Type** | **Title** |
| Bakersfield College | Achievement | Fire Academy & Fire Technology |
| College of the Desert | Achievement | Fire Academy & Fire Technology |
| Lake Tahoe Community College | Achievement | Fire Academy |
| Los Medanos College | Achievement | Fire Academy & Fire Technology |
| Moreno Valley College | Achievement | Fire Academy & Fire Technology |
| Oxnard College | Achievement | Fire Academy & Fire Technology |
| Shasta College | Achievement | Firefighter 1 & Fire Technology |

**Item 7b. Similar Programs other Colleges (Regionally)**

|  |  |  |
| --- | --- | --- |
| Cosumnes River College | Achievement | Fire Technology |
| Yuba College | Achievement | Fire Technology |
| Lake Tahoe Community College | Achievement | Fire Academy & Fire Science |

The only known college in our region to offer a Fire Academy Certificate of Achievement is Lake Tahoe Community College. (See below)

**Lake Tahoe Community College (Fire Academy Certificate of Achievement)**

*Fire Academy*

*Certificate of Achievement*

*An Accredited Regional Training Program through the California State Fire Marshal and the State Board of Fire Services*

The Fire Academy Certificate of Achievement is designed to prepare students for careers as entry-level firefighters and emergency medical technicians. The program provides students with the knowledge and skills required to become certified as a Firefighter I by the California Board of Fire Services (CBFS). Students will be academically prepared for certification as

a Firefighter I, and in order to receive their official certification from CBFS students will need to document one year of volunteer service or six months of paid service as a firefighter in California. In order to earn the Fire Academy Certificate of Achievement, students must successfully pass the Lake Tahoe Basin Fire Academy (FIR170A, FIR170B, FIR170C) and Emergency Medical Technician (EMT) (HEA140C). The Lake Tahoe Basin Fire Academy is offered in partnership with Eastern Alpine Fire/EMS, Lake Valley Fire Protection District, South Lake Tahoe Fire Department, and Tahoe Douglas Fire Protection District. The Academy is accredited by the California State Fire Marshal and the State Board of Fire Services. Interested students are advised that the Fire Academy is a physically and academically demanding program.

Attendance at a mandatory student orientation is required and is typically offered in August. Please see the summer schedule for orientation information. All students are required to meet with the Fire Academy Coordinator prior to the LTBFA Mandatory Orientation. To arrange a phone or in-person appointment, please call (530) 541-4660, ext. 554 or email lallen@mail.ltcc.edu.

Students are advised that this is a physically demanding course. A health clearance is required.

Prerequisites: Any 21+ hour course that meets the Minimum of Public Safety First Aid and CPR (CA Health and Safety Code 17.97.182). The instructor of record will verify the prerequisite at the first class meeting. Courses at LTCC that meet the prerequisite include HEA 140C, HEA 106, HEA 108, and WLD 107B.

Student Learning Outcomes for this certificate are:

• Define fire department organization and culture, and the expectations of entry-level fire department personnel.

• Demonstrate knowledge of fire department equipment through the selection and application of equipment for given firefighting tasks.

• Analyze and assess firefighter hazards inherent to the profession.

• Communicate effectively through multiple methods of communication including: written, electronic, face to face, and radio transmitted messages.

• Demonstrate knowledge of strategies, tactics and incident command through the selection and implementation of firefighting methods, and the application of the Emergency Command System.

• Demonstrate safe practices by using minimum standard safety procedures.

• Demonstrate the knowledge and skills necessary to become certified as an Emergency Medical Technician-I.

**A. REQUIRED COURSES:**

**All courses from the following (45.75 units):**

FIR 170A Lake Tahoe Basin Fire Academy, Part 1

FIR 170B Lake Tahoe Basin Fire Academy, Part 2

FIR 170C Lake Tahoe Basin Fire Academy, Part 3

HEA 140C Emergency Medical Technician (EMT)

Sierra College Fire Technology

Advisory Committee

Recollections

March 15, 2016

0900-1200

**Location: Auburn City Fire Department (Martin Park Fire Station)**

**485 High Street**

**Auburn, CA 95603**

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**Members Present:**

David Ray, Nevada County Training Officers

Matthew Jewett, Full Time Instructor, Sierra College

Tim Palmer, Fire Tech Coordinator, Sierra College

Mark D’Ambrogi, Fire Tech Instructor, Sierra College

Mark Buttron, Chief, Grass Valley

Sam Goodspeed, Chief, Nevada City Fire

Bart Ruud, Public Member

Mike Papera, ROP/CTE Works, Fire Tech/EMT Instructor

Shelly Allan-Pearce, Tahoe National Forest Service

Valarie Walker, Instructional Assistant, Sierra College

**Members Absent:**

Jake Sjolund, TSC, Cal Fire

Mark Romer, SFT and Fire Academy Director, Sierra College

Jim Summers, Fire Chief, City of Rocklin

Brad Chisolm, Training Captain, Squaw Valley Fire

Tim Crum, Fire Tech Instructor, Sierra College

John Ruffcorn, Public Safety Chief, Auburn, CA.

**Guests:**

Rachelle Smith, CEL, Sierra College

Justin Locketz, VP Coordinator, Placer County Education Services

1. Opening
* Call to Order at 09:10am
* Introductions & Welcome
1. Recollections of October 14, 2015- Approved
2. Unfinished Business:
	1. Fire Academy at NCC – Will need a tower, Apparatus Bay, and storage before starting. Once these items are at NCC then FF1 & FF2 Academies could be held at NCC. Over the summer Tim has been asked to create a white paper for NCC. The needs, cost, FTES, Risk and Benefits. Advisory Board member did suggest looking into the Foundation for a way that people can give a donation towards the fire tower at NCC. Tim said he would look into it.
	2. Company Officer Degree- Waiting on the Ethics courses to finish the curriculum for the Company officer degree.
	3. Ethics Courses- Still in progress. Tim and Mark Romer need to meet on work on curriculum.
3. Regional/Industry Updates:
* SFT Update (Romer) Mark wasn’t able to attend, so Tim filled in.
	+ IFSAC and ProBoard Approval- IFSAC has approved, ProBoard has a meeting coming up and will hopefully be approving the new FF1 curriculum.
	+ FF-1 Evaluator Certification Training began- Must attend one of the Evaluator Training classes in order to be an evaluator for the Final FF1 testing process.
* CTE/ROP Update (Mike Papera and Justin Locketz) - Two great groups of students this year. In the AM Fire Tech class there are 21 students and 15 will be going onto Sierra College, in the PM Fire Tech class there are 22 students and 15 will be going on to Sierra College. There are 14 students in the EMT prep class and 8 will be going onto Sierra. For next semester there are 78 students signed up for 40 spots. Students will be going through Dual Enrollment to help them get priority enrollment and getting credit for their fire tech classes. Dual enrollment is while in High School they are signed up at Sierra College as well for the Fire 1. Funding for these students comes from the State. Advisory Board supports CTE/ROP program and where they are going with the students.
* Job Placement/Employment Update/Trends (Rachelle Smith) - Handout on career websites and job opening.
* CTE Update- April 15 is a Career Exploration event for HS and College Counselors at Sierra College. Round robin where CTE programs will be around the campus for the counselors to visit with for about 15 min to get more information about each program to help give them more knowledge. Fire did ask for equipment at the CTE meeting and were tentatively approved for approximately $10K.
1. Department/Program and Fire Academy Updates:
* Fire Academy Updates (Jewett)
	+ Class of 15-2
		- After Action- (Handout) much improved report! Many compliments vs. negative feedback. Those little negative comments were about schedule and communication, but an improvement from before.
		- Student Evaluations-
	+ Class of 16-1- Started with 38 cadets and are down to 33. Just had MOD 1 testing and only lost one cadet. So far they are doing a great job!
* Public Safety Club (Jewett)- Fire Tech, Health Science and Admin. Of Justice Students. There are about 150 students that are a part of the club. Doing a lot of public events and outreach events with other departments like Roseville PD, and Sac Metro Fire. The club members are ready to network and help any department with volunteer or outreach.
* Program Updates (Palmer)
	+ Donations of Turnouts and helmets from Placer Hills FPD and Davis FD for our Fire 99 class. That will start in the Fall.
	+ Curriculum Updates (Approved) (Handout)
		- New Company Officer and Instructor Classes Completed **(Will be starting in the Fall)**
		- New Chief Fire Officer Classes (Fire 190, 191, 192, 193) **(Will be starting in the Spring 2017)**
		- Fire 76 Tactics and Strategies **(Starting in Fall 2016)**
		- Fire 98 Firefighter Career Pathways **(Starting in Fall 2016)**
		- Fire 99 Introduction into the Fire Academy **(Starting in Fall 2016)**
		- Fire 101 Firefighter Certification Testing **(Starting in Fall 2016)**
		- Fire 102 Firefighter II Academy **(Looking to start in Spring 2017)**
		- Archived 262, 263 (Fire Investigation 2A & 2B)
		- Deleted all Fire Officer Courses (Fire 150, 151, 152, 157, 158, 165, 166, & 167)
		- Recommend not archiving RS1 (Fire 650) based on regional need. **(Approved to keep in the Books)**
	+ Course Updates
		- Cancelled Fire 1 and 10 @ TTC and Fire 1 @ NCC. Will be going back to trying to offer Fire 1 & 10 back to back during the day on Tuesday and Thursday.
		- Added 8 hours to Fire 100 (Academy) for SFT Auto Ext. Fire Academy hours will be going to 546 hours from 538 to include the 8 hours.
		- Haz Mat Tech/Spec Series. Have been canceled due to lack of qualified instructors. CSTI has offered to update Roseville’s Equipment. CSTI would like to have a Northern California location in Roseville. We will like to approach CSTI to see how students can take the classes and still be able to get College Units and cost be less. We are still planning to run the A and B week courses in the Fall.
	+ Contract Updates:
		- NCC and Roseville FTC- Still working on the contracts. Trying to work out the financial aspect of the contracts.
	+ Fire Academy Admission Process (Walker). Were wanted to try and change the acceptance process, but the Chancellors Office wouldn’t allow a point system from feedback we got from other Academies. Still a First Come, First Serve Process. Last semester we had 82 applications for 37 spots. Applications for Fall will be available on Monday, March 28th at 8am till Friday, April 8 at 12pm.
	+ Regional Public Safety Training Center (FMP Update) – (Handout) Matt and Tim are on the Committee. Finally the Public Safety Program is on the Master Facilities Plan!!!
	+ Roseville Gateway Move **(Roseville Center Spring 2017)** 312 Vernon Street.
	+ Outreach Activities:
		- Del Oro High School Program Presentation/Placement
		- High School Counselors at Auburn ROP/CTE Works
	+ New Equipment
		- Drager Prop- Will be having a training on April 4 & 5.
		- Air Compressor. Waiting for the arrival.
* Budget/Purchases Update (Palmer) - Was suggested to make a list that could be available to the public of items that are needed for the program.
* Dept. Statistic Report (DSR)- Handout
* Division Updates- No updates
1. New Business
* Rapid Intervention Crew Operations (RIC) FSTEP class (24 hours)- Was approved by the members to move forward in getting the classes up and running and to include all 3 steps. 1) Fire Fighter Survival, 2) RIC and 3) Command & Control. Curriculum will be in the Fall. Classes will start in the Spring. Will need to find an instructor for the Command and Control section.
* Public Safety Honor Guard Academy (48 hour class) – Will be for both Fire Tech and Admin. of Justice. Approved by the members.
* Skills Certification for FF II Approved by Board Members
	+ Aid Veterans
	+ Job Placement
	+ Career Advancement
* Certification of Achievement for Fire 100 (18 units or more approved by Chancellor)- Approved by board members
* Fire Tech Pathways (Certs, Degrees and Transfer to CSU). (Handout) If anyone sees any changes to the handout, please let Tim know.
* Moving Academy Start/End Dates- Board approved moving the Academy start date a week back. Will start Spring 2017 Academy.
1. Good of the Order:
* Re-engineering Task Force (Matt)- Task force to help look at success rates for completion of students goals. Sierra College is at 11% completion rate.
1. Next Meeting Date: October 2016 (Location TBD)
2. Adjournment: 11:55am