



Agenda

Fire Science Advisory Committee

Lake Tahoe Community College

Wednesday November 15th, 2017

1:00 – 2:30PM

Board Room

- Welcome and Introductions
- Program Updates:
 - Fire In-Service
 - Fire Officer
 - Fire Science
 - Lake Tahoe Basin Fire Academy
 - South Bay Regional PSTC (JPA)
 - FIR 190 Advanced ICS I-400
 - Wilderness
- Student Learning Outcome Assessments
- Bond Updates
- Perkins
- General Discussion

STUDENT ACHIEVEMENT

FIRE ACADEMY (FIC)

SUMMARY

This report contains data related to student achievement, represented by the number of degrees and certificates awarded by the Fire Academy Department.

Year	Award Type	Title	# of Awards
2014-15	Certificate	Fire Academy	7
2014-15 TOTAL			7
2015-16	AA Degree	Fire Academy	1
	Certificate	Fire Academy	7
2015-16 TOTAL			8
2016-17	AA Degree	Fire Academy	4
	Certificate	Fire Academy	19
2016-17 TOTAL			23

2016-17 ANNUAL PROGRAM REVIEW

Fire Academy

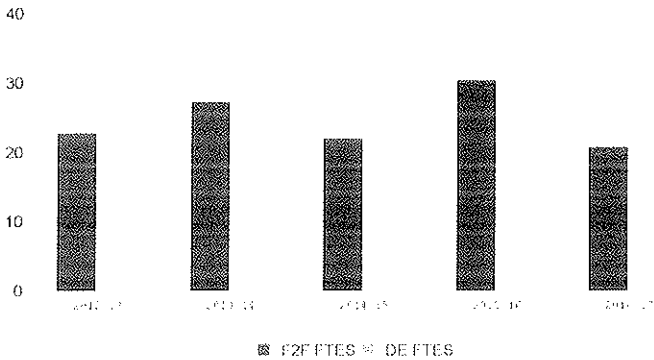


FIRE ACADEMY SUMMARY

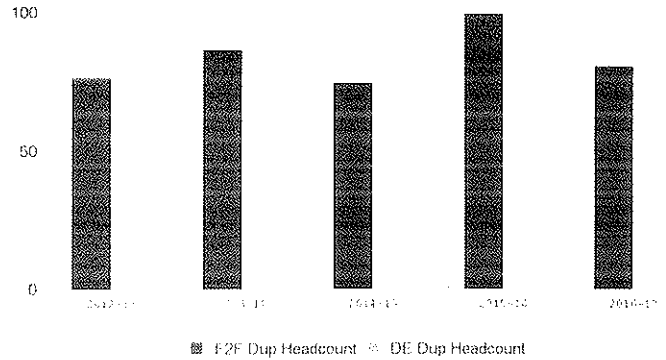
This report contains data from Academic Year (AY) 2012 to 2016. Information on program size based on full-time equivalent students (FTES), Student Success, and Student Achievement are presented below.

	Total Sections	F2F Sections	Dist Ed Sections	Total FTES	F2F FTES	Dist Ed FTES	Total Duplicated Headcount	F2F Duplicated Headcount	Dist Ed Duplicated Headcount
2012-13	3	3	0	22.61	22.61	0.00	76	76	0
2013-14	3	3	0	27.06	27.06	0.00	86	86	0
2014-15	3	3	0	21.87	21.87	0.00	74	74	0
2015-16	4	4	0	30.22	30.22	0.00	99	99	0
2016-17	3	3	0	20.58	20.58	0.00	80	80	0
4-Yr Chg (12-13 to 16-17)	0.0%	0.0%	---	-9.0%	-9.0%	---	5.3%	5.3%	---
1-Yr Chg (15-16 to 16-17)	-25.0%	-25.0%	---	-31.9%	-31.9%	---	-19.2%	-19.2%	---

RESIDENT FTES



DUPLICATED HEADCOUNT



2016-17 ANNUAL PROGRAM REVIEW

Fire Academy

DEMOGRAPHICS

	2012-13		2013-14		2014-15		2015-16		2016-17	
	N	%	N	%	N	%	N	%	N	%
Male	26	92.9%	27	90.0%	24	88.9%	31	93.9%	25	80.6%
Female	2	7.1%	3	10.0%	3	11.1%	2	6.1%	5	16.1%
Unknown	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	3.2%

	2012-13		2013-14		2014-15		2015-16		2016-17	
	N	%	N	%	N	%	N	%	N	%
African American	0	0.0%	2	6.7%	0	0.0%	0	0.0%	0	0.0%
Asian	1	3.6%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Hispanic	6	21.4%	7	23.3%	11	40.7%	6	18.2%	4	12.9%
Native Amer/Alaska Native	0	0.0%	1	3.3%	1	3.7%	0	0.0%	0	0.0%
White Non-Hispanic	19	67.9%	19	63.3%	15	55.6%	27	81.8%	26	83.9%
Two or more races	2	7.1%	1	3.3%	0	0.0%	0	0.0%	1	3.2%

	2012-13		2013-14		2014-15		2015-16		2016-17	
	N	%	N	%	N	%	N	%	N	%
Age < 25	15	53.6%	17	56.7%	16	59.3%	17	51.5%	17	54.8%
Age 25 - 49	13	46.4%	13	43.3%	11	40.7%	16	48.5%	14	45.2%

	2012-13		2013-14		2014-15		2015-16		2016-17	
	N	%	N	%	N	%	N	%	N	%
Median Age	23		23		24		25		24	
Youngest	17		18		17		17		17	
Oldest	38		40		37		40		45	

2016-17 ANNUAL PROGRAM REVIEW

Fire Academy

COURSE SUCCESS

	2012-13		2013-14		2014-15		2015-16		2016-17	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Male	69	98.6%	76	97.4%	62	96.8%	92	100.0%	64	98.4%
Female	6	100.0%	7	100.0%	9	100.0%	6	100.0%	11	100.0%
Unknown	0	0.0%	0	0.0%	0	0.0%	0	0.0%	2	50.0%

	2012-13		2013-14		2014-15		2015-16		2016-17	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
African American	0	0.0%	6	100.0%	0	0.0%	0	0.0%	0	0.0%
Asian	3	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Hispanic	13	92.3%	17	100.0%	30	100.0%	15	100.0%	7	100.0%
Native Amer/Alaska Native	0	0.0%	3	100.0%	3	100.0%	0	0.0%	0	0.0%
White Non-Hispanic	53	100.0%	54	96.3%	38	94.7%	83	100.0%	67	97.0%
Two or more races	6	100.0%	3	100.0%	0	0.0%	0	0.0%	3	100.0%

	2012-13		2013-14		2014-15		2015-16		2016-17	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Age < 25	38	97.4%	50	98.0%	40	95.0%	48	100.0%	42	95.2%
Age 25 - 49	37	100.0%	33	97.0%	31	100.0%	50	100.0%	35	100.0%

NOTE: Enrollment = duplicated headcount, excluding audits, noncredit, and drops w/ no record

2016-17 ANNUAL PROGRAM REVIEW

Fire Academy

2016-17 COURSE STATISTICS

FIRE ACADEMY PRODUCTIVITY* (2016-17):	426.26
% FULL TIME INSTRUCTORS** (2016-17):	0%
% ADJUNCT INSTRUCTORS** (2016-17):	100%

FACE TO FACE		Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTEs	WSCH	FTEF	Productivity
FIR-170A	LT Basin Fire Academy, Part 1	1	0.0%	0%	100%	31.0	28.0	90.3%	100.0%	7.68	434	0.29	496.00
FIR-170B	LT Basin Fire Academy, Part 2	1	0.0%	0%	100%	26.0	26.0	100.0%	92.3%	6.82	371	0.30	416.00
FIR-170C	LT Basin Fire Academy, Part 3	1	0.0%	0%	100%	23.0	23.0	100.0%	100.0%	6.08	328	0.30	368.00
Total		3	0.0%	0%	100%	26.7	25.7	96.3%	97.4%	20.58	1,132	0.89	

DISTANCE EDUCATION		Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTEs	WSCH	FTEF	Productivity
			---					0.0%					---
Total			---					0.0%					

* Excludes Summer, noncredit, work experience, internship, and cancelled sections

** Excludes summer assignments. Based on instructional workload and the percentage of workload assigned under full-time contracts versus adjunct contracts

*** Withdrawal and success statistics exclude noncredit classes

2016-17 ANNUAL PROGRAM REVIEW

Fire In-Service

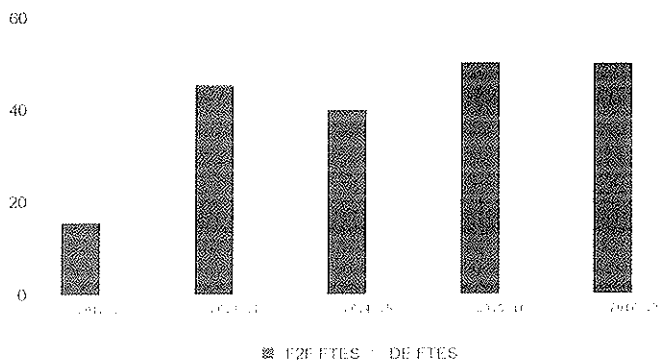


FIRE IN-SERVICE SUMMARY

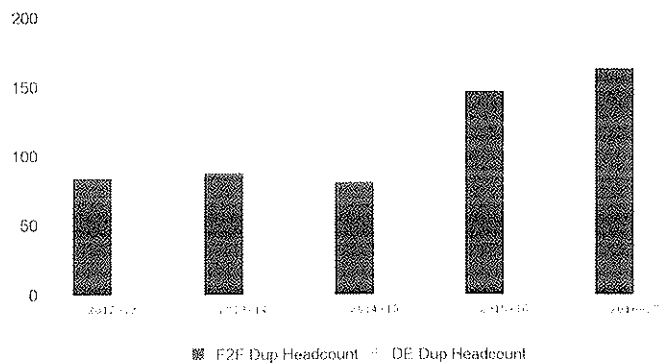
This report contains data from Academic Year (AY) 2012 to 2016. Information on program size based on full-time equivalent students (FTES), Student Success, and Student Achievement are presented below.

	Total Sections	F2F Sections	Dist Ed Sections	Total FTES	F2F FTES	Dist Ed FTES	Total Duplicated Headcount	F2F Duplicated Headcount	Dist Ed Duplicated Headcount
2012-13	4	4	0	15.19	15.19	0.00	83	83	0
2013-14	15	15	0	44.98	44.98	0.00	87	87	0
2014-15	14	14	0	39.51	39.51	0.00	80	80	0
2015-16	15	15	0	49.77	49.77	0.00	146	146	0
2016-17	14	14	0	49.58	49.58	0.00	162	162	0
4-Yr Chg (12-13 to 16-17)	250.0%	250.0%	---	226.4%	226.4%	---	95.2%	95.2%	---
1-Yr Chg (15-16 to 16-17)	-6.7%	-6.7%	---	-0.4%	-0.4%	---	11.0%	11.0%	---

RESIDENT FTES



DUPLICATED HEADCOUNT



2016-17 ANNUAL PROGRAM REVIEW

Fire In-Service

COURSE SUCCESS

	2012-13		2013-14		2014-15		2015-16		2016-17	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Male	76	98.7%	81	98.8%	73	97.3%	137	94.9%	131	94.7%
Female	7	85.7%	5	100.0%	5	100.0%	7	85.7%	8	87.5%
Unknown	0	0.0%	0	0.0%	0	0.0%	1	100.0%	1	0.0%

	2012-13		2013-14		2014-15		2015-16		2016-17	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Hispanic	8	100.0%	11	90.9%	10	100.0%	15	86.7%	15	93.3%
Native Amer/Alaska Native	1	100.0%	0	0.0%	0	0.0%	1	100.0%	1	100.0%
White Non-Hispanic	71	97.2%	71	100.0%	64	96.9%	116	94.8%	113	93.8%
Two or more races	1	100.0%	2	100.0%	2	100.0%	9	100.0%	9	88.9%
Unknown	2	100.0%	2	100.0%	2	100.0%	4	100.0%	2	100.0%

	2012-13		2013-14		2014-15		2015-16		2016-17	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Age < 25	4	100.0%	6	100.0%	3	100.0%	1	100.0%	0	0.0%
Age 25 - 49	62	96.8%	67	98.5%	64	96.9%	127	94.5%	125	94.4%
Age 50 +	17	100.0%	13	100.0%	11	100.0%	17	94.1%	15	86.7%

NOTE: Enrollment = duplicated headcount, excluding audits, noncredit, and drops w/ no record.

2016-17 ANNUAL PROGRAM REVIEW

Fire In-Service

DEMOGRAPHICS

	2012-13		2013-14		2014-15		2015-16		2016-17	
	N	%	N	%	N	%	N	%	N	%
Male	76	91.6%	82	94.3%	75	93.8%	138	94.5%	151	93.2%
Female	7	8.4%	5	5.7%	5	6.3%	7	4.8%	10	6.2%
Unknown	0	0.0%	0	0.0%	0	0.0%	1	0.7%	1	0.6%

	2012-13		2013-14		2014-15		2015-16		2016-17	
	N	%	N	%	N	%	N	%	N	%
Hispanic	8	9.6%	11	12.6%	10	12.5%	15	10.3%	16	9.9%
Native Amer/Alaska Native	1	1.2%	0	0.0%	0	0.0%	1	0.7%	1	0.6%
White Non-Hispanic	71	85.5%	72	82.8%	66	82.5%	117	80.1%	134	82.7%
Two or more races	1	1.2%	2	2.3%	2	2.5%	9	6.2%	9	5.6%
Unknown	2	2.4%	2	2.3%	2	2.5%	4	2.7%	2	1.2%

	2012-13		2013-14		2014-15		2015-16		2016-17	
	N	%	N	%	N	%	N	%	N	%
Age < 25	4	4.8%	6	6.9%	3	3.8%	1	0.7%	0	0.0%
Age 25 - 49	62	74.7%	67	77.0%	65	81.3%	128	87.7%	147	90.7%
Age 50 +	17	20.5%	14	16.1%	12	15.0%	17	11.6%	15	9.3%

	2012-13		2013-14		2014-15		2015-16		2016-17	
	N	%	N	%	N	%	N	%	N	%
Median Age		37		37		38		39		38
Youngest		20		22		23		24		23
Oldest		63		64		58		59		60

2016-17 ANNUAL PROGRAM REVIEW

Fire In-Service

COURSE SUCCESS

	2012-13		2013-14		2014-15		2015-16		2016-17	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Male	76	98.7%	81	98.8%	73	97.3%	137	94.9%	131	94.7%
Female	7	85.7%	5	100.0%	5	100.0%	7	85.7%	8	87.5%
Unknown	0	0.0%	0	0.0%	0	0.0%	1	100.0%	1	0.0%

	2012-13		2013-14		2014-15		2015-16		2016-17	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Hispanic	8	100.0%	11	90.9%	10	100.0%	15	86.7%	15	93.3%
Native Amer/Alaska Native	1	100.0%	0	0.0%	0	0.0%	1	100.0%	1	100.0%
White Non-Hispanic	71	97.2%	71	100.0%	64	96.9%	116	94.8%	113	93.8%
Two or more races	1	100.0%	2	100.0%	2	100.0%	9	100.0%	9	88.9%
Unknown	2	100.0%	2	100.0%	2	100.0%	4	100.0%	2	100.0%

	2012-13		2013-14		2014-15		2015-16		2016-17	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Age < 25	4	100.0%	6	100.0%	3	100.0%	1	100.0%	0	0.0%
Age 25 - 49	62	96.8%	67	98.5%	64	96.9%	127	94.5%	125	94.4%
Age 50 +	17	100.0%	13	100.0%	11	100.0%	17	94.1%	15	86.7%

NOTE: Enrollment = duplicated headcount, excluding audits, noncredit, and drops w/ no record

2016-17 ANNUAL PROGRAM REVIEW

Fire In-Service

2016-17 COURSE STATISTICS

FIRE IN-SERVICE PRODUCTIVITY* (2016-17):	129.8
% FULL TIME INSTRUCTORS** (2016-17):	0%
% ADJUNCT INSTRUCTORS** (2016-17):	100%

FACE TO FACE		Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTEs	WSCH	FTEF	Productivity
FIR-162A	Prof. Firefighter Train Part 1	3	0.0%	0%	100%	3.7	3.0	81.8%	88.9%	1.57	91	0.52	58.67
FIR-162B	Prof. Firefighter Train Part 2	3	0.0%	0%	100%	6.0	6.0	100.0%	100.0%	6.72	302	1.05	96.00
FIR-162C	Prof. Firefighter Train Part 3	3	0.0%	0%	100%	6.3	6.3	100.0%	100.0%	10.58	475	1.56	101.33
FIR-162D	Prof. Firefighter Train Part 4	3	33.3%	0%	100%	8.5	8.5	100.0%	100.0%	12.06	565	1.39	136.00
FIR-162E	Prof. Firefighter Train Part 5	3	33.3%	0%	100%	4.0	4.0	100.0%	100.0%	7.27	334	1.74	64.00
FIR-191HN	St. Prof Fire Train Prog	1	0.0%	0%	100%	89.0	69.0	77.5%	88.4%	11.38	734	0.17	1,424.00
Total		16	12.5%	0%	100%	11.6	10.0	86.4%	93.6%	49.58	2,501	6.42	

DISTANCE EDUCATION		Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTEs	WSCH	FTEF	Productivity
			---					0.0%					---
Total			---					0.0%					

* Excludes Summer, noncredit, work experience, internship, and cancelled sections

** Excludes summer assignments Based on instructional workload and the percentage of workload assigned under full-time contracts versus adjunct contracts

*** Withdrawal and success statistics exclude noncredit classes

STUDENT ACHIEVEMENT

FIRE OFFICER (FIO)

SUMMARY

This report contains data related to student achievement, represented by the number of degrees and certificates awarded by the Fire Officer Department.

Year	Award Type	Title	# of Awards
2015-16	AA Degree	Fire Officer	1
2015-16 TOTAL			1

2016-17 ANNUAL PROGRAM REVIEW

Fire Officer

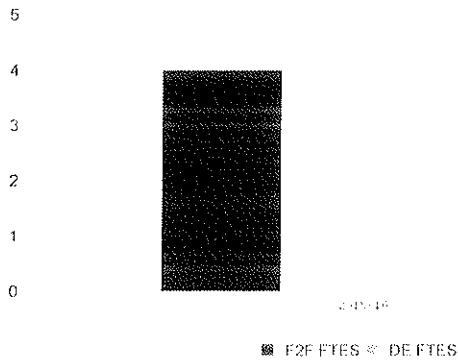


FIRE OFFICER SUMMARY

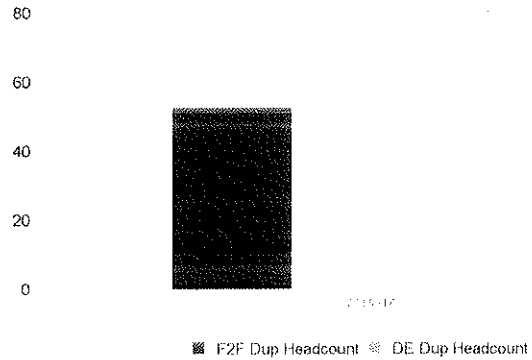
This report contains data from Academic Year (AY) 2012 to 2016. Information on program size based on full-time equivalent students (FTES), Student Success, and Student Achievement are presented below.

	Total Sections	F2F Sections	Dist Ed Sections	Total FTES	F2F FTES	Dist Ed FTES	Total Duplicated Headcount	F2F Duplicated Headcount	Dist Ed Duplicated Headcount
2015-16	3	3	0	3.96	3.96	0.00	52	52	0
0-Yr Chg (15-16 to 15-16)	0.0%	0.0%	---	0.0%	0.0%	---	0.0%	0.0%	---
1-Yr Chg (to 15-16)	0.0%	0.0%	---	0.0%	0.0%	---	0.0%	0.0%	---

RESIDENT FTES



DUPLICATED HEADCOUNT



2016-17 ANNUAL PROGRAM REVIEW

Fire Officer

DEMOGRAPHICS

	2015-16	
	N	%
Male	38	88.4%
Female	5	11.6%

	2015-16	
	N	%
African American	1	2.3%
Asian	2	4.7%
Hispanic	4	9.3%
White Non-Hispanic	33	76.7%
Two or more races	1	2.3%
Unknown	2	4.7%

	2015-16	
	N	%
Age 25 - 49	33	76.7%
Age 50 +	10	23.3%

	2015-16	
	N	%
Median Age	45	
Youngest	34	
Oldest	58	

2016-17 ANNUAL PROGRAM REVIEW

Fire Officer

COURSE SUCCESS

	2015-16	
	Enrollment	Success
Male	45	100.0%
Female	7	100.0%

	2015-16	
	Enrollment	Success
African American	2	100.0%
Asian	3	100.0%
Hispanic	6	100.0%
White Non-Hispanic	38	100.0%
Two or more races	1	100.0%
Unknown	2	100.0%

	2015-16	
	Enrollment	Success
Age 25 - 49	40	100.0%
Age 50 +	12	100.0%

NOTE: Enrollment = duplicated headcount, excluding audits, noncredit, and drops w/ no record.

2016-17 ANNUAL PROGRAM REVIEW

Fire Officer

2016-17 COURSE STATISTICS

	FIRE OFFICER PRODUCTIVITY* (2016-17): % FULL TIME INSTRUCTORS** (2016-17): % ADJUNCT INSTRUCTORS** (2016-17):
--	--

FACE TO FACE		Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTES	WSCH	FTEF	Productivity
FIR-178E	Fire Management 2E	1	100.0%					0.0%			0		---
Total		1	100.0%					0.0%			0		

DISTANCE EDUCATION		Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTES	WSCH	FTEF	Productivity
			---					0.0%					---
Total			---					0.0%					

* Excludes Summer, noncredit, work experience, internship, and cancelled sections

** Excludes summer assignments. Based on instructional workload and the percentage of workload assigned under full-time contracts versus adjunct contracts

*** Withdrawal and success statistics exclude noncredit classes.

STUDENT ACHIEVEMENT

FIRE OFFICER (FIO)

SUMMARY

This report contains data related to student achievement, represented by the number of degrees and certificates awarded by the Fire Officer Department.

Year	Award Type	Title	# of Awards
2015-16	AA Degree	Fire Officer	1
2015-16 TOTAL			1

2016-17 ANNUAL PROGRAM REVIEW

Fire Science

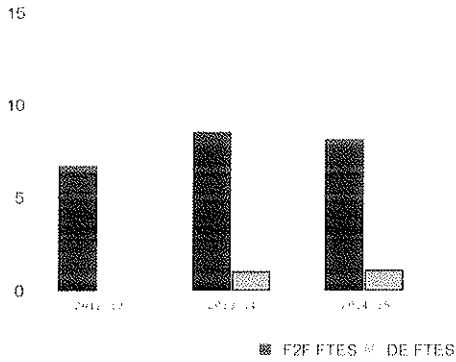


FIRE SCIENCE SUMMARY

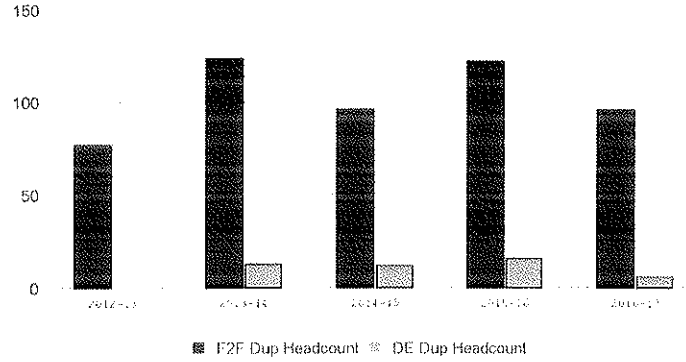
This report contains data from Academic Year (AY) 2012 to 2016. Information on program size based on full-time equivalent students (FTES), Student Success, and Student Achievement are presented below.

	Total Sections	F2F Sections	Dist Ed Sections	Total FTES	F2F FTES	Dist Ed FTES	Total Duplicated Headcount	F2F Duplicated Headcount	Dist Ed Duplicated Headcount
2012-13	7	7	0	6.64	6.64	0.00	77	77	0
2013-14	10	9	1	9.44	8.46	0.98	137	124	13
2014-15	11	10	1	9.13	8.07	1.07	108	96	12
2015-16	11	9	2	12.55	11.13	1.42	138	122	16
2016-17	13	12	1	8.17	7.64	0.53	102	96	6
4-Yr Chg (12-13 to 16-17)	85.7%	71.4%	---	23.0%	15.0%	---	32.5%	24.7%	---
1-Yr Chg (15-16 to 16-17)	18.2%	33.3%	-50.0%	-34.9%	-31.4%	-62.5%	-26.1%	-21.3%	-62.5%

RESIDENT FTES



DUPLICATED HEADCOUNT



2016-17 ANNUAL PROGRAM REVIEW

Fire Science

DEMOGRAPHICS

	2012-13		2013-14		2014-15		2015-16		2016-17	
	N	%	N	%	N	%	N	%	N	%
Male	41	89.1%	66	93.0%	67	93.1%	99	88.4%	71	86.6%
Female	5	10.9%	4	5.6%	5	6.9%	11	9.8%	8	9.8%
Unknown	0	0.0%	1	1.4%	0	0.0%	2	1.8%	3	3.7%

	2012-13		2013-14		2014-15		2015-16		2016-17	
	N	%	N	%	N	%	N	%	N	%
African American	0	0.0%	1	1.4%	0	0.0%	13	11.6%	6	7.3%
Asian	0	0.0%	1	1.4%	1	1.4%	3	2.7%	1	1.2%
Hispanic	7	15.2%	12	16.9%	17	23.6%	40	35.7%	19	23.2%
Native Amer/Alaska Native	0	0.0%	3	4.2%	2	2.8%	1	0.9%	1	1.2%
Pacific Islander	1	2.2%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
White Non-Hispanic	34	73.9%	49	69.0%	51	70.8%	49	43.8%	49	59.8%
Two or more races	3	6.5%	4	5.6%	1	1.4%	6	5.4%	6	7.3%
Unknown	1	2.2%	1	1.4%	0	0.0%	0	0.0%	0	0.0%

	2012-13		2013-14		2014-15		2015-16		2016-17	
	N	%	N	%	N	%	N	%	N	%
Age < 25	24	52.2%	47	66.2%	35	48.6%	83	74.1%	55	67.1%
Age 25 - 49	22	47.8%	23	32.4%	37	51.4%	29	25.9%	27	32.9%
Age 50 +	0	0.0%	1	1.4%	0	0.0%	0	0.0%	0	0.0%

	2012-13		2013-14		2014-15		2015-16		2016-17	
	N	%	N	%	N	%	N	%	N	%
Median Age	23		23		25		22		22	
Youngest	16		17		17		16		17	
Oldest	48		51		46		42		46	

2016-17 ANNUAL PROGRAM REVIEW

Fire Science

COURSE SUCCESS

	2012-13		2013-14		2014-15		2015-16		2016-17	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Male	69	82.6%	125	93.6%	93	92.5%	115	95.7%	89	95.5%
Female	6	83.3%	5	80.0%	6	83.3%	16	100.0%	8	100.0%
Unknown	0	0.0%	1	100.0%	0	0.0%	2	100.0%	3	100.0%

	2012-13		2013-14		2014-15		2015-16		2016-17	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
African American	0	0.0%	2	100.0%	0	0.0%	14	100.0%	8	100.0%
Asian	0	0.0%	1	100.0%	1	100.0%	3	100.0%	1	100.0%
Hispanic	10	50.0%	17	88.2%	23	91.3%	51	94.1%	27	96.3%
Native Amer/Alaska Native	0	0.0%	4	100.0%	2	100.0%	2	100.0%	1	100.0%
White Non-Hispanic	58	89.7%	96	94.8%	71	91.5%	56	96.4%	56	94.6%
Two or more races	6	83.3%	10	80.0%	2	100.0%	7	100.0%	7	100.0%
Unknown	1	0.0%	1	100.0%	0	0.0%	0	0.0%	0	0.0%

	2012-13		2013-14		2014-15		2015-16		2016-17	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Age < 25	42	83.3%	89	93.3%	47	87.2%	96	96.9%	73	94.5%
Age 25 - 49	33	81.8%	40	92.5%	52	96.2%	37	94.6%	27	100.0%
Age 50 +	0	0.0%	2	100.0%	0	0.0%	0	0.0%	0	0.0%

NOTE: Enrollment = duplicated headcount, excluding audits, noncredit, and drops w/ no record

2016-17 ANNUAL PROGRAM REVIEW

Fire Science

2016-17 COURSE STATISTICS

FIRE SCIENCE PRODUCTIVITY* (2016-17):		154.46
% FULL TIME INSTRUCTORS** (2016-17):		0%
% ADJUNCT INSTRUCTORS** (2016-17):		100%

FACE TO FACE		Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTEs	WSCH	FTEF	Productivity
FIR-101	Fire Protection Organization	1	0.0%	0%	100%	9.0	9.0	100.0%	77.8%	0.76	39	0.08	154.80
FIR-103	Fire Protection Equip & Syst	1	0.0%	0%	100%	5.0	5.0	100.0%	100.0%	0.36	20	0.08	80.00
FIR-132	FIR Work Experience	8	25.0%			7.2	7.0	97.7%	100.0%	3.51	0	0.00	---
FIR-133	Intern-Occupational Work Exp.	5	80.0%			4.0	4.0	100.0%	100.0%	0.53	0	0.00	---
FIR-153	Fire Hydraulics	1	0.0%	0%	100%	5.0	5.0	100.0%	80.0%	0.36	30	0.08	120.00
FIR-167	Wildland Fire Sty-Hnd Crw Ops	1	0.0%	0%	100%	19.0	19.0	100.0%	100.0%	1.37	76	0.08	304.00
FIR-191HG	ST: Preparing for Success	1	100.0%					0.0%					---
FIR-191HM	ST: CAL FIRE Basic Supp Module	1	0.0%	0%	100%	11.0	11.0	100.0%	100.0%	0.74	36	0.07	176.00
Total		19	36.8%	0%	100%	8.0	7.9	99.0%	96.8%	7.64	200	0.40	

DISTANCE EDUCATION		Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTEs	WSCH	FTEF	Productivity
FIR-104	Bldg Const Fire Protection	1	100.0%					0.0%			0		---
FIR-105	Fire Behavior & Combustion	1	0.0%	0%	100%	6.0	5.0	83.3%	80.0%	0.53	24	0.08	96.00
Total		2	50.0%	0%	100%	6.0	5.0	83.3%	80.0%	0.53	24	0.08	

* Excludes Summer, noncredit, work experience, internship, and cancelled sections

** Excludes summer assignments. Based on instructional workload and the percentage of workload assigned under full-time contracts versus adjunct contracts

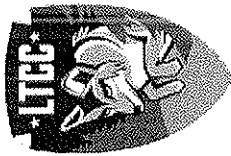
*** Withdrawal and success statistics exclude noncredit classes.

2016-17 ANNUAL PROGRAM REVIEW

South Bay Regional PSTC

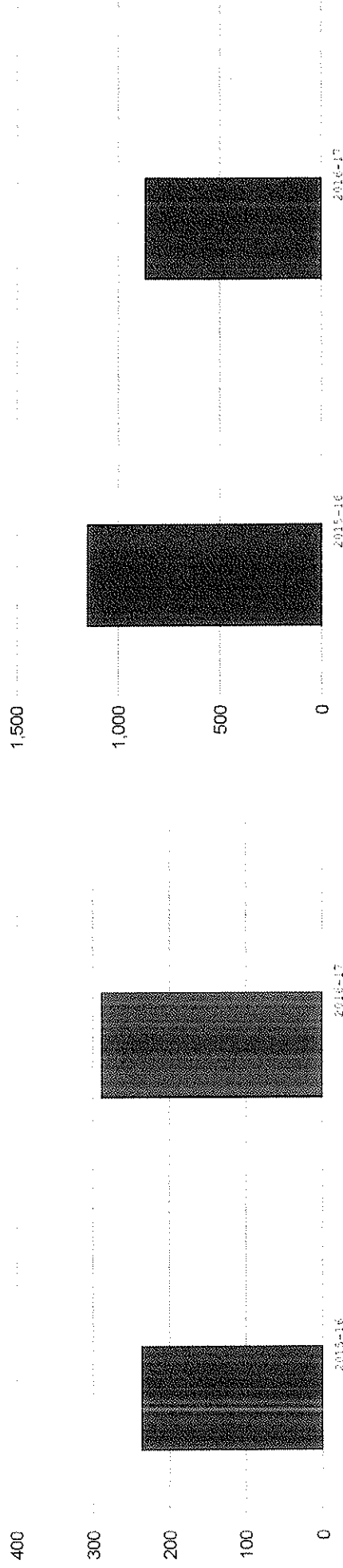
SOUTH BAY REGIONAL PSTC SUMMARY

This report contains data from Academic Year (AY) 2015 to 2016. Information on program size based on full-time equivalent students (FTES), Student Success, and Student Achievement are presented below.



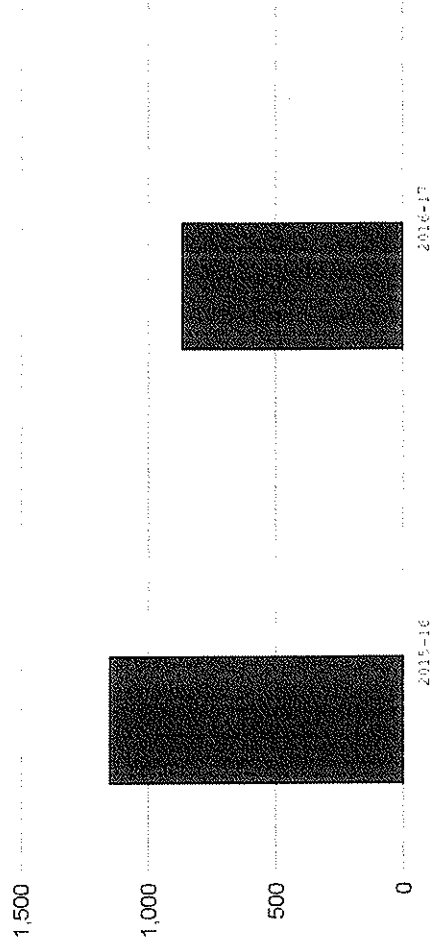
	Total Sections	F2F Sections	Dist Ed Sections	Total FTES	F2F FTES	Dist Ed FTES	Total Duplicated Headcount	F2F Duplicated Headcount	Dist Ed Duplicated Headcount
2015-16	52	52	0	236.03	236.03	0.00	1,150	1,150	0
2016-17	21	21	0	288.03	288.03	0.00	868	868	0
1-Yr Chg (15-16 to 16-17)	-59.6%	-59.6%	---	22.0%	22.0%	---	-24.5%	-24.5%	---
1-Yr Chg (15-16 to 16-17)	-59.6%	-59.6%	---	22.0%	22.0%	---	-24.5%	-24.5%	---

RESIDENT FTES



■ F2F FTES ■ DE FTES

DUPLICATED HEADCOUNT



■ F2F Dup Headcount ■ DE Dup Headcount

2016-17 ANNUAL PROGRAM REVIEW

South Bay Regional PSTC

DEMOGRAPHICS

	2015-16		2016-17	
	N	%	N	%
Male	836	94.7%	750	95.8%
Female	45	5.1%	31	4.0%
Unknown	2	0.2%	2	0.3%

	2015-16		2016-17	
	N	%	N	%
African American	40	4.5%	28	3.6%
Asian	40	4.5%	55	7.0%
Hispanic	161	18.2%	172	22.0%
Native Amer/Alaska Native	2	0.2%	3	0.4%
Pacific Islander	7	0.8%	7	0.9%
White Non-Hispanic	489	55.4%	407	52.0%
Two or more races	27	3.1%	20	2.6%
Other	12	1.4%	5	0.6%
Unknown	105	11.9%	86	11.0%

	2015-16		2016-17	
	N	%	N	%
Age < 25	93	10.5%	76	9.7%
Age 25 - 49	697	78.9%	579	73.9%
Age 50 +	93	10.5%	128	16.3%
Age Unknown	0	0.0%	0	0.0%

	2015-16		2016-17	
	N	%	N	%
Median Age	36		43	
Youngest	15		18	
Oldest	65		68	

2016-17 ANNUAL PROGRAM REVIEW

South Bay Regional PSTC

COURSE SUCCESS

	2015-16		2016-17	
	Enrollment	Success	Enrollment	Success
Male	1,090	100.0%	832	99.5%
Female	57	100.0%	34	97.1%
Unknown	3	100.0%	2	100.0%

	2015-16		2016-17	
	Enrollment	Success	Enrollment	Success
African American	50	100.0%	36	100.0%
Asian	57	100.0%	67	100.0%
Hispanic	209	100.0%	183	98.9%
Native Amer/Alaska Native	5	100.0%	3	100.0%
Pacific Islander	8	100.0%	7	100.0%
White Non-Hispanic	624	100.0%	444	99.3%
Two or more races	35	100.0%	22	100.0%
Other	16	100.0%	6	100.0%
Unknown	146	100.0%	100	100.0%

	2015-16		2016-17	
	Enrollment	Success	Enrollment	Success
Age < 25	115	100.0%	76	98.7%
Age 25 - 49	938	100.0%	655	99.4%
Age 50 +	97	100.0%	137	100.0%

NOTE: Enrollment = duplicated headcount, excluding audits, noncredit, and drops w/ no record.

2016-17 ANNUAL PROGRAM REVIEW

South Bay Regional PSTC

2016-17 COURSE STATISTICS

SOUTH BAY REGIONAL PSTC PRODUCTIVITY* (2016-17):						709.73
% FULL TIME INSTRUCTORS** (2016-17):						0%
% ADJUNCT INSTRUCTORS** (2016-17):						100%

FACE TO FACE	Sections Offered	Cancel %	FT %**	Adjunct %**	Avg Census Enroll	Avg End of Term Enroll	Retention %***	Success %***	FIES	WSCH	FTEF	Productivity
FIR-162A	Prof. Firefighter Train Part 1	33.3%	0%	100%	131.8	131.8	100.0%	100.0%	99.19	4,348	0.69	2,108.00
FIR-162B	Prof. Firefighter Train Part 2	0.0%	0%	100%	18.0	18.0	100.0%	100.0%	27.57	1,206	1.40	288.00
FIR-162C	Prof. Firefighter Train Part 3	0.0%	0%	100%	62.0	62.0	100.0%	100.0%	35.43	1,550	0.52	992.00
FIR-162D	Prof. Firefighter Train Part 4	0.0%	0%	100%	37.0	37.0	100.0%	100.0%	28.12	1,230	0.69	592.00
FIR-170D	Firefighter I Academy (JPA)	0.0%	0%	100%	32.0	32.0	100.0%	95.8%	90.27	3,984	2.59	512.00
FIR-171B	Fire Command 1B	0.0%	0%	100%	4.0	4.0	100.0%	100.0%	0.30	13	0.07	65.64
FIR-171C	Fire Command 1C	0.0%	0%	100%	3.0	3.0	100.0%	100.0%	0.23	10	0.07	49.23
FIR-172A	Training Instructor 1A	0.0%			16.0	16.0	100.0%	100.0%	1.22	53	0.07	262.57
FIR-172B	Training Instructor 1B	0.0%			12.0	12.0	100.0%	100.0%	0.91	40	0.07	196.92
FIR-172C	Training Instructor 1C	0.0%			12.0	12.0	100.0%	100.0%	0.91	40	0.07	196.92
FIR-173A	Fire Investigation 1A	0.0%	0%	100%	5.0	5.0	100.0%	100.0%	0.38	17	0.07	82.05
FIR-174A	Management 1	0.0%	0%	100%	9.0	9.0	100.0%	100.0%	0.69	30	0.07	147.69
FIR-178C	Fire Management 2C	100.0%					0.0%			0		---
FIR-178D	Fire Management 2D	100.0%					0.0%			0		---
FIR-179E	Fire Command 2E	100.0%					0.0%			0		---
HEA-131PP	ST: Outdoor Emergency Care	50.0%	0%	100%	13.0	13.0	100.0%	92.3%	2.81	133	0.21	208.00
Total	27	22.2%	0%	100%	41.3	41.3	100.0%	99.4%	288.03	12,655	6.58	

DISTANCE EDUCATION	Sections Offered	Cancel %	FT %**	Adjunct %**	Avg Census Enroll	Avg End of Term Enroll	Retention %***	Success %***	FIES	WSCH	FTEF	Productivity
Total							0.0%					---

* Excludes Summer, noncredit, work experience, internship, and cancelled sections

** Excludes summer assignments. Based on instructional workload and the percentage of workload assigned under full-time contracts versus adjunct contracts

*** Withdrawal and success statistics exclude noncredit classes.

2016-17 ANNUAL PROGRAM REVIEW

Wilderness Studies

AWARDS

	Award Type	Award Title	Awards Conferred
2015-16	AA Degree	Climbing	4
	AA Degree	Search and Rescue	1
	AA Degree	Snow Skills	2
2016-17	AA Degree	Climbing	1
	AA Degree	Water Skills	1

2016-17 ANNUAL PROGRAM REVIEW

Wilderness Studies

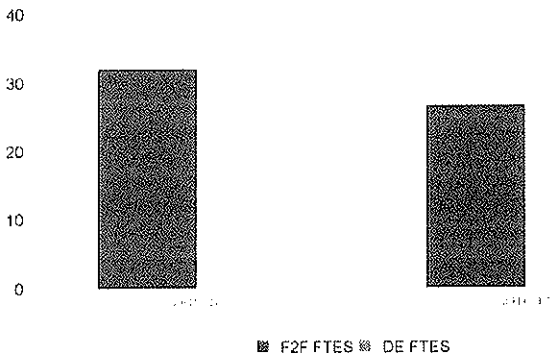


WILDERNESS STUDIES SUMMARY

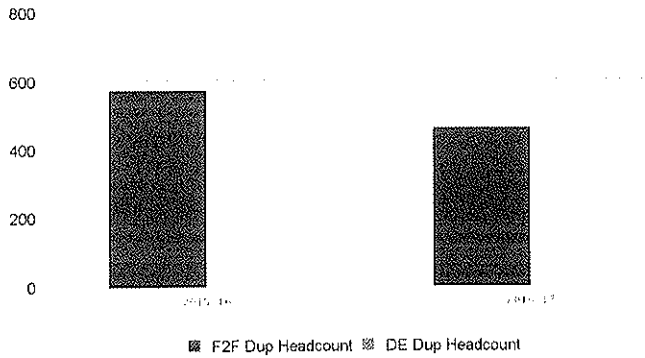
This report contains data from Academic Year (AY) 2015 to 2016. Information on program size based on full-time equivalent students (FTES), Student Success, and Student Achievement are presented below.

	Total Sections	F2F Sections	Dist Ed Sections	Total FTES	F2F FTES	Dist Ed FTES	Total Duplicated Headcount	F2F Duplicated Headcount	Dist Ed Duplicated Headcount
2015-16	48	48	0	31.77	31.77	0.00	571	571	0
2016-17	49	49	0	26.34	26.34	0.00	458	458	0
1-Yr Chg (15-16 to 16-17)	2.1%	2.1%	---	-17.1%	-17.1%	---	-19.8%	-19.8%	---
1-Yr Chg (15-16 to 16-17)	2.1%	2.1%	---	-17.1%	-17.1%	---	-19.8%	-19.8%	---

RESIDENT FTES



DUPLICATED HEADCOUNT



2016-17 ANNUAL PROGRAM REVIEW

Wilderness Studies

DEMOGRAPHICS

	2015-16		2016-17	
	N	%	N	%
Male	195	61.3%	178	58.7%
Female	110	34.6%	113	37.3%
Unknown	13	4.1%	12	4.0%

	2015-16		2016-17	
	N	%	N	%
African American	1	0.3%	0	0.0%
Asian	8	2.5%	8	2.6%
Hispanic	36	11.3%	33	10.9%
Native Amer/Alaska Native	0	0.0%	1	0.3%
White Non-Hispanic	257	80.8%	233	76.9%
Two or more races	10	3.1%	15	5.0%
Unknown	6	1.9%	13	4.3%

	2015-16		2016-17	
	N	%	N	%
Age < 25	95	29.9%	90	29.7%
Age 25 - 49	194	61.0%	185	61.1%
Age 50 +	29	9.1%	28	9.2%

	2015-16		2016-17	
	N	%	N	%
Median Age	27		27	
Youngest	13		13	
Oldest	82		75	

2016-17 ANNUAL PROGRAM REVIEW

Wilderness Studies

COURSE SUCCESS

	2015-16		2016-17	
	Enrollment	Success	Enrollment	Success
Male	371	95.4%	273	96.0%
Female	171	95.9%	148	96.6%
Unknown	15	86.7%	18	83.3%

	2015-16		2016-17	
	Enrollment	Success	Enrollment	Success
African American	1	100.0%	0	0.0%
Asian	8	100.0%	10	100.0%
Hispanic	73	93.2%	41	87.8%
Native Amer/Alaska Native	0	0.0%	1	100.0%
White Non-Hispanic	450	95.8%	353	96.3%
Two or more races	18	88.9%	17	100.0%
Unknown	7	100.0%	17	94.1%

	2015-16		2016-17	
	Enrollment	Success	Enrollment	Success
Age < 25	203	94.1%	152	92.1%
Age 25 - 49	317	95.9%	257	98.4%
Age 50 +	37	97.3%	30	90.0%

	2015-16		2016-17	
	Enrollment	Success	Enrollment	Success
F2F	557	95.3%	439	95.7%

NOTE: Enrollment = duplicated headcount, excluding audits, noncredit, and drops w/ no record.

2016-17 ANNUAL PROGRAM REVIEW

Wilderness Studies

2016-17 COURSE STATISTICS

WILDERNESS STUDIES PRODUCTIVITY* (2016-17):	165.42
% FULL TIME INSTRUCTORS** (2016-17):	0%
% ADJUNCT INSTRUCTORS** (2016-17):	100%

FACE TO FACE		Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTEs	WSCH	FTEF	Productivity
WLD-100	Found. of Recreation Land Mgmt	1	0.0%	0%	100%	12.0	10.0	83.3%	80.0%	0.82	36	0.06	192.00
WLD-101	Origins-Directions Wild Edu	1	0.0%	0%	100%	9.0	8.0	88.9%	75.0%	0.41	18	0.04	144.00
WLD-102	Intro to Search and Rescue	1	0.0%	0%	100%	11.0	9.0	81.8%	88.9%	0.41	22	0.04	176.00
WLD-104	Fundamentals of Outdoor Ldrshp	3	0.0%	0%	100%	8.0	7.7	95.8%	91.3%	1.81	96	0.25	128.00
WLD-107A	Wilderness First Aid	2	0.0%	0%	100%	10.0	9.5	95.0%	94.7%	1.14	59	0.13	158.22
WLD-107B	Wilderness First Responder	3	0.0%	0%	100%	16.3	16.3	100.0%	98.0%	7.08	329	0.42	260.02
WLD-112C	Map, Compass, and GPS	2	0.0%	0%	100%	9.5	9.0	94.7%	94.4%	1.09	57	0.13	152.00
WLD-112D	Tracking	1	0.0%	0%	100%	18.0	18.0	100.0%	83.3%	0.76	36	0.04	288.00
WLD-112E	Search Theory	1	0.0%	0%	100%	5.0	5.0	100.0%	100.0%	0.09	5	0.02	80.00
WLD-116	Mountain Weather	1	0.0%	0%	100%	15.0	15.0	100.0%	100.0%	0.67	30	0.04	240.00
WLD-117A	Beginning Mountaineering	1	0.0%	0%	100%	8.0	8.0	100.0%	100.0%	0.55	24	0.06	128.00
WLD-117B	Intermediate Mountaineering	1	0.0%	0%	100%	7.0	7.0	100.0%	100.0%	0.64	28	0.08	112.00
WLD-119	Technical Rope Rescue	1	0.0%	0%	100%	9.0	9.0	100.0%	100.0%	0.41	18	0.04	144.00
WLD-120A	Rock Climbing: Beginning	3	33.3%	0%	100%	7.5	7.5	100.0%	93.3%	0.57	45	0.13	120.00
WLD-120B	Rock Climbing: Intermediate	2	50.0%	0%	100%	8.0	6.0	75.0%	100.0%	0.38	24	0.06	128.00
WLD-120C	Rock Climbing: Advanced	2	100.0%					0.0%			0		---
WLD-120D	Rock Climbing Movement	1	0.0%			7.0	7.0	100.0%	100.0%	0.41	21	0.00	---
WLD-121	Snowshoeing	1	100.0%					0.0%			0		---
WLD-122A	Cross Country Skiing	1	100.0%					0.0%			0		---
WLD-122C	Nordic Skate Skiing: Beg	1	0.0%	0%	100%	4.0	4.0	100.0%	75.0%	0.06	6	0.03	64.00
WLD-122D	Nordic Skate Skiing: Int	1	0.0%			3.0	3.0	100.0%	100.0%	0.10	5	0.00	---
WLD-122E	Nordic Skate Skiing: Advanced	1	0.0%			1.0	1.0	100.0%	100.0%	0.03	2	0.00	---
WLD-124A	Telemark Skiing: Beginning	1	100.0%					0.0%			0		---
WLD-124AA	Telemark Skiing: Intermediate	2	100.0%					0.0%			0		---
WLD-124B	Telemark Skiing: Advanced	1	100.0%					0.0%			0		---
WLD-125A	Backcountry Skiing	1	0.0%	0%	100%	5.0	5.0	100.0%	100.0%	0.21	10	0.04	80.00
WLD-125B	Backcountry Skiing: Intermed	2	50.0%			2.0	1.0	50.0%	100.0%	0.05	4	0.00	---

Office of Institutional Research and Planning (OIRP)

2016-17 ANNUAL PROGRAM REVIEW

Wilderness Studies

2016-17 COURSE STATISTICS

WILDERNESS STUDIES PRODUCTIVITY* (2016-17):	165.42
% FULL TIME INSTRUCTORS** (2016-17):	0%
% ADJUNCT INSTRUCTORS** (2016-17):	100%

FACE TO FACE		Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTEs	WSCH	FTEF	Productivity
WLD-125C	Backcountry Skiing: Advanced	1	100.0%					0.0%			0		---
WLD-126A	Backcountry Snowboarding	1	0.0%	0%	100%	4.0	4.0	100.0%	100.0%	0.18	8	0.04	64.00
WLD-126B	Splitboarding: Beginning	1	0.0%			8.0	5.0	62.5%	100.0%	0.16	16	0.00	---
WLD-126C	Multi-Day Ski/Splitboard Tour	1	100.0%					0.0%			0		---
WLD-128B	AIARE Level 1 Avalanche	10	10.0%	0%	100%	12.3	12.3	100.0%	99.1%	4.46	222	0.37	197.34
WLD-128C	AIARE 2 Avalanche	2	0.0%	0%	100%	9.5	9.5	100.0%	100.0%	1.41	62	0.14	152.00
WLD-128E	Avalanche Rescue	1	0.0%	0%	100%	10.0	9.0	90.0%	100.0%	0.16	8	0.02	160.00
WLD-128R	Avalanche: Avoidance & Rescue	1	0.0%	0%	100%	15.0	15.0	100.0%	100.0%	0.17	11	0.02	240.00
WLD-137C	Wildflower Hikes	1	0.0%			10.0	10.0	100.0%	60.0%	0.27	30	0.06	159.56
WLD-140A	Whitewater Rafting: Beginning	1	0.0%	0%	100%	7.0	7.0	100.0%	100.0%	0.36	16	0.05	112.00
WLD-140B	Whitewater Rafting: Intermed	1	100.0%					0.0%			0		---
WLD-140C	Whitewater Guide School	1	0.0%	0%	100%	8.0	7.0	87.5%	85.7%	0.96	56	0.15	128.00
WLD-141A	Swiftwater Rescue	1	0.0%	0%	100%	3.0	3.0	100.0%	100.0%	0.19	9	0.06	48.00
WLD-146A	Sea Kayaking: Beginning	2	50.0%	0%	100%	6.0	6.0	100.0%	100.0%	0.21	9	0.03	96.00
WLD-147C	Kayaking LT Water: W Shore	1	0.0%			6.0	6.0	100.0%	83.3%	0.11	5	0.02	88.00
Total		65	24.6%	0%	100%	9.3	9.0	96.5%	95.0%	26.34	1,326	2.57	

DISTANCE EDUCATION		Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTEs	WSCH	FTEF	Productivity
			---					0.0%					---
Total			---					0.0%					

* Excludes Summer, noncredit, work experience, internship, and cancelled sections

** Excludes summer assignments. Based on instructional workload and the percentage of workload assigned under full-time contracts versus adjunct contracts

*** Withdrawal and success statistics exclude noncredit classes.



Fire Science Advisory Committee Meeting Minutes November 15th, 2017

Present

- ❖ Brad Deeds — Dean of Workforce Development and Instruction, Lake Tahoe Community College
- ❖ Chris Placke — Fire Captain - Battalion 8, CAL FIRE and Adjunct Faculty Fire Science, Lake Tahoe Community College
- ❖ David Reichel — Part-time Academic Program Coordinator and Adjunct Faculty Wilderness Education, Lake Tahoe Community College
- ❖ Ed Roe - Equipment Coordinator and Adjunct Faculty Lake Tahoe Basin Fire Academy, Lake Tahoe Community College
- ❖ Jamie Rhone — Career and Technical Education Program Specialist, Lake Tahoe Community College
- ❖ Jeff Cowen – Member, Board of Trustees, Lake Tahoe Community College
- ❖ Jeremy Brown — Director of Institutional Effectiveness, Lake Tahoe Community College
- ❖ Jennifer Robillard – Instructional Aide Lake Tahoe Basin Fire Academy, Lake Tahoe Community College
- ❖ Jim Drennan — Battalion Chief, South Lake Tahoe Fire Rescue and Adjunct Faculty Fire Science, Lake Tahoe Community College
- ❖ John Martinez — District Director - Tahoe Center, California Conservation Corps
- ❖ Josh DiMartini – Student Representative Lake Tahoe Basin Fire Academy, Lake Tahoe Community College
- ❖ Keegan Shafer — Crew Supervisor, Tahoe Douglas Fire Protection District and Fire Science Adjunct Faculty, Lake Tahoe Community College
- ❖ Laura Salinas — Director of Equity, Lake Tahoe Community College
- ❖ Leona Allen – Administrative Coordinator and Adjunct Faculty Lake Tahoe Basin Fire Academy, Lake Tahoe Community College
- ❖ Luke Borchers – Student Representative Lake Tahoe Basin Fire Academy, Lake Tahoe Community College
- ❖ Rick Ansel — Fire Chief, Kirkwood Volunteer Fire Department - Kirkwood Meadows Public Utility District
- ❖ Scott Baker — Fire Chief, Tahoe Douglas Fire Protection District
- ❖ Steve Pevenage — Battalion Chief, Lake Valley Fire Protection District

The meeting was called to order at 1:05PM

Welcome and Introductions

Welcomes and introductions were made around the room. Last Year's Fire Science Advisory minutes were reviewed. The Fire Science Committee Members approved the minutes of November 9, 2016, as presented.

Program Overview and Review

A full reporting of the data for the Fire Academy, and Fire In-Service, Fire Officer, Fire Science, South Bay Regional, and Wilderness programs is found in the attachment to these minutes.

Lake Tahoe Basin Fire Academy – We are in our 12th year and our graduates are hired by agencies all over the basin, region and

country. Many are hired with the [U.S. Forest Service](#). Class 12 had a rough start; we lost several students due to the lack of housing in the South Shore area. We started the year with 32 cadets but now have only 22. The housing issue has become a problem within the community and has resulted in a smaller than usual class this year. We have been keeping busy by attending many badge ceremonies and volunteering. As part of their required quarterly community service, members of the class spent the day in the Santa Rosa area volunteering at a donation site to help victims of the devastating fires. After sorting through mounds of clothing, appliances, furniture, kitchenware, etc., they stopped to pay their respects to one of the affected neighborhoods.

We currently have one new internship program through [Lake Valley Fire Protection District \(LVFPD\)](#). The internship program has a great outcome for the student and the agency. This is a paid internship and a six-month program. Students also receive college course credit. Interns are expected to work the normal shift as a firefighter, 48/96. They complete the Task Book and the goal is to be ready for Capstone Testing. [North Lake Tahoe Fire Protection District \(NLTFPD\)](#) is knocking on our door to add an Internship Program but we need to obtain permission from [Sierra Nevada College \(SNC\)](#) as it is in their district. [Tahoe Douglas Fire Protection District \(TDFPD\)](#) is also interested in participating but there may be more requirements for the Nevada side.

Students need the Capstone Testing to get their Firefighter I (FFI) certification. The State Fire Training Capstone Testing program is a performance-based system. It starts with a Position Task Book of qualifying individual performance and culminates in a comprehensive summative test. The summative test covers the topics included in the required State Fire Training courses for the position. The closest place LTBFA graduates can go to take this test is [Sierra College](#) in Rocklin. They offer a 52-hour course [FIR 101 "Firefighter 1 Certification Testing"](#) designed to meet State Fire Training (SFT) requirements for Firefighter 1 (FFI) including capstone knowledge and skills necessary for FFI certification. Upon successful completion, students receive a pass letter from SFT and a FF1 pass certificate from the college. However, it is cost prohibitive as the cost to rent the required Self-Contained Breathing Apparatus (SCBA) and Personal Protective Equipment (PPE) can cost up to \$1,500. That's the piece we would like to help with by taking on the testing process ourselves. We could possibly do this if we used multiple agencies. It's the academic pieces that would have to be fit together.

[The Lake Tahoe Basin Fire Academy \(LTBFA\)](#) has been using the new curriculum, Fire Fighter 2013. Now that the curriculum is approved by the [Pro Board Fire Service Professional Qualifications System](#) and the [International Fire Service Accreditation Congress \(IFSAC\)](#), future graduates can go anywhere in the nation without having to go through another state's academy. We currently are using [Carson City Fire Department's](#) facilities but are looking for options in the Tahoe basin. It is a burden to drive to Carson City in the winter and many of the LTBFA cadets are already commuting from out of the area.

[CAL FIRE](#) has also expressed interest in participating in the Internship program. They could allow up to three students to on their ride-alongs. CAL FIRE has been offering a "bridge" class through LTCC: ***Special Topics: CAL FIRE Basic Firefighter - Supplemental Module (FIR-191HN)***, for LTBFA students or anyone completing a California regionally accredited fire academy. The 40-hour course is designed to provide the basic level training requirements for students wishing to qualify for consideration for employment with CAL FIRE.

The construction of a ["Regional Public Safety Training Center"](#) (RPSTC) is one of the bond projects Lake Tahoe Community College (LTCC) proposes to finance with proceeds of the bonds. This would be the ideal location but is currently in the proposed stage. A fire-training tower will also be needed to sustain the LTBFA. This is the Career & Technical Education (CTE) Department's biggest priority. We would need to broaden and diversify our portfolio. Not only would the RPSTC be a place for the LTBFA to train, but this would also be used by the Emergency Medical Technician (EMT) and Wilderness (WLD) Departments. We would also tie in our future Cybersecurity program and number of other projects (Wilderness Education's Search and Rescue, Criminal Justice, etc.) in the works. Law Enforcement could use this facility for training as well.

In September 2018 LTCC will be hosting [SAREX](#), the annual California Search and Rescue Exercise sponsored by the California Governor's Office of Emergency Services (CalOES), in cooperation with a host agency. It's part of our strategy to diversify offerings to support the Regional Public Safety Training Center.

Community colleges have seen shrinking enrollments across the state and nations. This typically happens when the economy is booming (there are plenty of jobs so people are less incentivized to come to college). In the meantime, LTCC is offering a

variety of non-traditional programs, such as *Distance Education*, the *Incarcerated Student Program (ISP)*, and the *South Bay Regional PSTC (JPA)*. Our biggest program is *Fire Science*, which includes JPA (this is us lending our curriculum to South Bay so they can provide the training). This is a good partnership and we see up to 300 FTES per academic year. The college as a whole generates around 1600 FTES.

The LTBFA has been operating on a tight budget for twelve years and has been using a fifty-year-old burn tower. It had to be torn down and a temporary training prop will be built. In the meantime, the LTBFA has been working out of storage containers at the City of South Lake Tahoe Airport. This is just a temporary solution. Programs such as the LTBFA require specialized classrooms. We have moved most of our equipment into two Connex containers and we're creating a workspace for Ed to maintain the SCBA's. We also need a utility vehicle and a plow as the City of SLT cannot plow for us anymore. LVFPD's station 6 donated space to store our Immediately Dangerous to Life or Health (IDLH) turnouts. We are hoping to have a temporary facility and training tower at LVFPD as it is a long drive over the hill to Carson City, NV. especially in inclement weather, in the interim until we can get the Regional Public Safety Training Center built. We need to create a committee or conversation and talk with every fire chief in the area.

Two cadets from LTBFA briefed the committee members on class 12. They both appreciate the opportunity to attend the academy, as it has been a rewarding experience so far. They are impressed with the cadre of the cadets and Mrs. Allen has been a huge resource to everyone. They also want to ensure their time is well spent and all of their efforts lead to a job and career. They also want to make sure the training grounds are safe so that unnecessary injuries can be prevented. The commute over the hill for training has been a bit cumbersome and the certification steps are convoluted. LTBFA graduates need to apply to another college to take the certification test. Hopefully, the academy can change this in the future. The cadets also thanked everyone for coming together today and for giving them an opportunity to give back to the community.

Jennifer Robillard has been working with the staff at LTBFA and helping with administrative support duties. She is also cross training with Leona Allen, Administrative Coordinator for the LTBFA. Leona has recently been appointed a position on the LVFPD Board and, in consequence, will be transitioning into a reduced role with the LTBFA.

We're meeting with the [Industrial Emergency Council \(IEC\)](#) to bring [Aircraft Rescue and Fire Fighting \(ARFF\)](#). The IEC helps organizations prepare for potentially catastrophic events where first response can mean the critical difference for both survival and rapid recovery. Airports ensure compliance with [Federal Aviation Administration \(FAA\)](#) ARFF training requirements for all personnel including mutual aid firefighters. This would be another opportunity to hire Faculty to teach the ARFF training and get apportionment.

Jeff Cowen, Board of Trustee, thanked the committee members for attending and stepping up. This is his first Fire Science Advisory Committee Meeting and he found it very informational. After hearing from everyone today, he would like to create a forum to give members a chance to voice their opinions and discuss the matters at hand.

Fire In-Service – The Fire In-Service training contracts have been in place since 2006 and this year's in-service contracts included modules A-E and up to 504 hours. The following agencies participated in our Fire In-Service program in 2016-17: CAL FIRE, LVFPD, SLTFR, and TDFPD. [Eastern Alpine Volunteer Fire Department \(EAVFD\)](#) and [Kirkwood Volunteer Fire Department \(KVFD\)](#) and have participated in the past.

Fire Science – The Fire Science program is fairly stable with the majority of students being male and white or Non-Hispanic. We are interested in all of our Career and Technical Education (CTE) programs to reflect what our communities represent. Our target is to get to at least a 34% Hispanic/Latino student population. The Equity Department does a number of things with [South Tahoe High School \(STHS\)](#), such as speaking at "Senior Day" and "Dual Enrollment Day". The [Dual Enrollment Program](#) allows STHS students to earn both high school and college credit for successfully passing designated programs, at no cost. A presentation is also given to about sixty students during our *Emergency Medical Responder (EMR)* class, held at STHS. We also offer an EMR class at LTCC (the courses into the DUAL program, which would lead to the *Kinesiology Degree*).

We have also spoken to [Whittell High School](#) students. We'd like to send information in Spanish about our programs, to both

STHS and Whittell parents, to capture Hispanic/Latino students. Nevada residents not living around the lake are required to pay the [out-of-state tuition fee](#) is \$187/per unit. However, [The Interstate Attendance Agreement](#) is available to students who reside in one of the following zip codes: Crystal Bay 89102, Incline Village 89451, 89450, Glenbrook 89413, Zephyr Cove 89448, or Stateline 89449. Up to 100 Nevada residents who live within the parameters of the Lake Tahoe Basin are eligible for a reduced fee of \$93/unit.

Wilderness – The SAR and WLD programs are doing well. The AIARE – Avalanche courses are usually held in the winter as they depend on the snowy weather. We are also going to open a full-time Wilderness Faculty position.

The [California Conservation Corps \(CCC\)](#) provides young men and women 18 – 25 years old a year of paid service to the State of California. During their year of service, Corpsmembers work on environmental projects and respond to natural and man-made disasters. Emergency response is one of its missions. They've responded to all of the recent hurricanes and were on top of this year's fire season. They currently have six crews doing erosion control in the fire-ravaged areas near Santa Rosa. They have a diverse population of men and women. The average length of stay is about nine months to one year and housing is provided for those employed with the CCC. The CCC has more than two dozen residential and nonresidential locations throughout the state. The local CCC would like to get more involved with the LTBF, as it is a good pathway for future employment with local fire agencies and the forest service.

Perkins Act – LTBF is partially funded by [Perkins](#) funding. This funding also helps our Career & Technical Education Department provide a Quarterly Textbook Lending Program, which provides textbooks for eligible students on the BOGW fee waiver and are pursuing a vocational degree or certificate. This funding is due to a Federal act established to improve career-technical education programs, integrate academic and career-technical instruction, serve special populations, and meet gender equity needs. The Carl D. [Perkins Career and Technical Education Act of 2006 \(Perkins IV\)](#) is a principal source of federal funding to states and discretionary grantees for the improvement of secondary and postsecondary career and technical education programs across the nation. The purpose of the Act is to develop more fully the academic, career, and technical skills of secondary and postsecondary students who elect to enroll in career and technical education programs.

Student Learning Outcome Assessments

See attachment "Student Learning Outcome Assessment Summary for Allied Health (2016-17)" for the following courses:

- ✓ Fire Hydraulics (FIR 153) – Torril Purvis
- ✓ Professional Firefighter Training Program: Part 1 (FIR 162A – Scott Baker, Jim Drennan, and Brad Zlendick
- ✓ Professional Firefighter Training Program: Part 2 (FIR 162B) – Scott Baker, Jim Drennan, and Brad Zlendick
- ✓ Professional Firefighter Training Program: Part 3 (FIR 162C) – Scott Baker, Jim Drennan, and Brad Zlendick
- ✓ Professional Firefighter Training Program: Part 4 (FIR 162D) – Scott Baker, Jim Drennan, and Brad Zlendick
- ✓ Professional Firefighter Training Program: Part 5 (FIR 162E) – Scott Baker, Jim Drennan, and Brad Zlendick

The meeting adjourned at 2:50PM

The following handouts are presented as attachments to the meeting minutes:

- ✓ Fire Academy Annual Program Review Report and Awards (2016-17)/Promotional Flyer (2017-18)
- ✓ Fire In-Service Annual Program Review Report (2016-17)
- ✓ Fire Officer Annual Program Review Report and Awards (2016-17) /Promotional Flyer (2017-18)
- ✓ Fire Science Annual Program Review Report and Awards (2016-17)/Promotional Flyer (2017-18)
- ✓ South Bay Regional PSTC Annual Program Review Report (2016-17)

Respectively submitted,

Melissa Liggett

Career & Technical Education Technician

Lake Tahoe Community College

Draft Print Date: 1/2/17

Proposed Course Outline for (CB01): **FIR 190 Advanced ICS I-400**

Course Title (CB02):

Lecture Hours	Lab Hours	Quarter Units <small>(CB06*)</small>	Total Hours	Repeatable	Grading Option
8	8	.5	16	No	PASS/NO PASS

Family: None

Class Schedule Description

This Incident Command System course is designed for Chief Officers. Consists of four modules developed by the National Wildfire Coordinating Group to meet the needs of command officers managing complex emergency incidents. Advanced ICS expands upon much of the material covered in the I-300 class. Emphasizes large-scale development; roles and relationships of primary staff, the planning, operational, logistical and fiscal considerations related to large and complex incident and event management. Describes the application of Area Command and the importance of inter-agency coordination on complex incidents and events.

Prerequisites

California State Marshal certified Fire Fighter 1 Academy or equivalent as determined by the Dean of Academy Instruction. Note: Approval of equivalent training is not a guarantee state regulatory or licensing agencies with also grant equivalency. Prior to beginning this course students must already be familiar with, and be able to demonstrate all of the skills listed below. These will not be taught in the course, rather, they will be the starting point for advanced fire fighter training that builds upon them. These minimum knowledge and skill levels are regarding: Familiarity with the Incident Command System, Knowledge of Fire Service Organization, Familiarity with Fire Fighter verbal communication

Corequisites

Course Advisories

Proposed start date

Spring 2018

Course Type (CB04*)

- Degree applicable (course is applicable to the AA degree)
- Non-degree applicable. If non-degree applicable, check the following categories which describe the course:
 - Precollegiate basic skills course.
 - Course designed to enable students to succeed in college-level work.
 - Precollegiate occupational prep course, which provides foundation skills for entry into college-level courses.
 - Essential occupational instruction for which meeting the standards of an AA degree credit course is neither necessary nor required.

Student Learning Outcomes

1. Demonstrate the ability to effectively organize, create a plan, and manage complex emergency incidents/events during classroom simulated incidents.

Course Objectives

1. Identify the incident management process of command and general staff functions during complex incidents as prescribed by the Incident Command System.

2. Apply the planning process during multiple incidents, developing incident objectives and selecting a effective strategy.

Topics and Subtopics

Module 12

- I. Incident Command System (ICS)
 - A. A standardized management tool for meeting the demands of small or large emergency or non-emergency situations
 - 1. Every incident small or large, simple or complex must have some form of an action plan whether oral or written.
 - B. ICS Requirements
 - 1. A standardized functional organization must be established.
 - 2. Related functions should be grouped together within the organization
 - 3. Subordinates within the organization must be delegated the necessary authority to manage their assigned functions
- II. Overall Organizational Functions
 - A. Incident Commander
 - 1. Manages the organization
 - B. Command Staff
 - 1. Responsible for key activities i.e. Public Information Officer, Liaison Officer
 - C. General Staff
 - 1. Functional aspects for the incident command structure.
 - D. Incident Types

Module 17

- I. EOC's (Emergency Operations Center) and DOC's (Department Operations Center) in California
 - A. Definition, Purpose, and Scope
 - B. Relationship to Unified Command, Area Command, and Inter-Agency coordination
- II. Field and Local EOC interface and need for government coordination

LAB CONTENT:

Module 13

- I. Unified Command
 - A. Defined- Consists of the Incident Commanders for the various jurisdictions or agencies operating together to form a single command structure.
 - B. Advantages of using Unified Command
- II. Planning Process
 - A. Evaluating the situation
 - B. Developing incident objectives
 - C. Selecting a strategy

Module 14

- I. Major and/or Complex Incident / Event Management
 - A. Incident Complexity Types
 - B. Complex Organization Characteristics
 - C. Incident Complex
 - D. Dividing an Incident
 - E. Expanded Planning Capability

Module 15

- I. Area Command
 - A. Responsibilities, Relationships and Best Practices
 - B. Area Command Organization
- II. Multi-agency Coordination
 - A. Coordinating Structures
 - B. Activation

Module 16

- I. Mutual Aid
 - A. California Mutual Aid Program
 - B. Process for Mutual Aid Coordination
 - C. Mutual Aid Systems
 - D. Mutual Aid Request Procedure
 - E. Command and Support of on-scene Mutual Aid Resources

Appropriate Reading Assignments

Students will review characteristics of complex organization as described in ICS Field Operations Guide.

Appropriate Writing Assignments

Students will compose incident objectives for skill demonstration in class.

Other Assignments

Students will prepare presentations outlining the coordination structures of multi-agency coordination plans.

Students will break into groups to complete the assigned role play scenario. They will be asked to provide detailed responsibilities and duties of Command and General Staff during assigned incident.

Examples of assignments that demonstrate critical thinking

Students, during classroom activity, will be required to adjust presentation methods given various changing circumstances in the class environment.

Methods of Assessing Student Learning Outcomes

Skills Demonstration: Students will participate in a simulated meeting of the incident commanders to demonstrate incident objectives, overall strategy, cost-sharing and informational matters.

Objective Exam: Students will take a final exam and must pass at 80%

Written Assignments

Quizzes

Methods of Instruction

Lecture

Discussion

Skills Demonstration

Texts/Resources

State Fire Marshall Office ICS Field Operations Guide 2017

Budget Code Information

TOPS Code (CB03*): 2133.00
SAM (CB09*): C
Discipline Assignment: Fire Technology

Other Information

Classification Code (CB11): Y - Credit Course

Course Level Status (CB21*): Y

Basic Skills Status (CB08*): N

Program Status (CB24): 1 - Program applicable

Dept Code: FIR

Topic Code:

Work Experience Status (CB10): No

Special Class Status (CB13): No

Non credit Status (CB22*): N/A-CR

Economic Development Funding (CB23): No

VTEA Funding: No

Inmate Education: No

In-Service Training: No

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) (HEA140A). 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.

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)

Students are required to meet with a counselor, counselor@ltcc.edu or 530-541-4660 ext. 211, to develop an educational plan. All schedules subject to change!

2017-2018 CTE Schedules – Fire Academy

Code	Description	Instructor	2017-18	Meeting Day(s)	Meeting Times	Meeting Dates
FIR-170A-01	Lake Tahoe Basin Fire Academy, Part 1	Terry Hughes/Leona Allen	Fall 2017	Monday/Saturday	7:30 - 11:50AM/1:00 - 5:20PM	9/18 - 12/4/17 + 21 hours TBA
HEA-140C-01	Emergency Medical Technician (EMT)	Nate Hagenbach	Fall 2017	Tuesday and Thursday	9:00 - 11:50AM and 1:00 - 5:05PM	9/19 - 12/7/17 + 24 hours TBA
FIR-170B-01	Lake Tahoe Basin Fire Academy, Part 2	Terry Hughes/Leona Allen	Winter 2018	Monday/Saturday	7:30 - 11:50AM/1:00 - 5:20PM	1/8 - 4/2/18 + 21 hrs TBA
HEA-140C-01	Emergency Medical Technician (EMT)	Scott Blasser	Winter 2018	Tuesday, Wednesday, and Thursday	6:00 - 10:20PM	1/9 - 3/27/18 and 1/10 - 3/28/18, and 1/11 / 3/29/18 + 24 hours TBA
FIR-170C-01	Lake Tahoe Basin Fire Academy, Part 3	Terry Hughes/Leona Allen	Spring 2018	Monday/Saturday	7:30 - 11:50AM/1:00 - 5:20PM	4/9 - 6/25/18 + 21 hours TBA
HEA-140C-01	Emergency Medical Technician (EMT)	Nate Hagenbach	Spring 2018	Tuesday and Thursday	9:00 - 11:50AM and 1:00 - 4:50PM	4/10 - 6/28/18 + 24 hours TBA

Updated:8/2/2017 11:31 AM

LTCC offers a Fire Academy Certificate of Achievement and Associate Degree in *Fire Academy* is offered through our college. Interested students should schedule a meeting with the Lake Tahoe Basin Fire Academy Coordinator/Instructor, Leona Allen. Office hours are by appointment: lallen@mail.ltcc.edu. Applicants planning to enter the Lake Tahoe Basin Fire academy (LTBFA) for fall 2017 are REQUIRED to attend the mandatory LTBFA orientation on Wednesday August 9th, 2017 from 6:00 – 9:30PM in the Board/Aspen room L104/L103. Reservations are not required. For more information, go to our website at www.ltcc.edu and click on the “Academics” tab, click on “Academic Programs” and then click on “[FIRE ACADEMY](#)”.

To view the online catalog, go to our website at www.ltcc.edu and click on “ACADEMICS” tab and then click on “[CATALOG](#)”.

To view online the current schedule of classes, go to our website at www.ltcc.edu and click on the “ACADEMICS” tab and then click on “[SCHEDULE OF CLASSES](#)”.

Summer 2017	Fall 2017	Winter 2018	Spring 2018	Summer 2018	Fall 2018	Winter 2019	Spring 2019
No Offerings	FIR 170A-01	FIR 170B-01	FIR 170C-01	No Offerings	FIR 170A-01	FIR 170B-01	FIR 170C-01

To become a student at Lake Tahoe Community College, you will need to complete an online application before you can register for classes. Please go to our website at www.ltcc.edu, click on “[Admissions](#)”. Your application might take up to 24 hours to process prior to your being able to enroll in specific courses, so please be patient and check the LTCC email you are assigned for updates. Contact Enrollment Services at 530-541-4660 ext. 211 or enrollmentservices@ltcc.edu for information on assessment, orientation, and counseling.

Fire Officer

Certificate of Achievement

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

The Fire Officer degree prepares students for supervisory-level careers in the fire service and training opportunities for employed and volunteer firefighters. Coursework includes; Human Resource Management, Instructional Methodology and Development, All-Risk Command and Wildland Operations, General Administrative Functions, Fire Inspections and Investigations, Budget and Fiscal Responsibilities, and Emergency Service Delivery Response. Students successfully completing the necessary coursework and meeting additional industry-specific requirements are eligible for California State Fire Marshal certification as a Fire Officer. Students must complete all summative tests with a minimum score of 80%. This program follows the National Fire Protection Association (NFPA) 1021 Standard for Fire Officer Professional Qualifications (2014), National Fire Protection Association (NFPA) 1051 Standard for Wildland Fire Fighter Professional Qualifications (2012) and National Fire Protection Association (NFPA) 1041 Standard for Fire Instructor Professional Qualifications (2012) to provide the qualifications for State Fire Training's Fire Officer Certification.

Note: In order to be certified by the State Board of Fire Services as Fire Officer, students must have a minimum of five year's full-time paid or ten year's volunteer or part-time paid experience in a Recognized Fire Agency in California as a fire fighter performing suppression duties and at least two years of experience must be at the officer level (Lieutenant or higher) and be Office of the State Fire Marshal (OSFM) certified Fire Officer, or Office of the State Fire Marshal (OSFM) certified Company Officer and possess, at a minimum, an associate's degree (any major) or higher from an accredited post-secondary institution.

Student Learning Outcome

- Prepare for and pass all required certification training standards included in the Certification Task Book in the Chief Fire Officer California Training Standard Guide (November 2014), which is based on National Fire Protection Association (NFPA) 1021 Standard for Fire Officer Professional Qualifications (2014), National Fire Protection Association (NFPA) 1051 Standard for Wildland Fire Fighter Professional Qualifications (2012), and National Fire Protection Association (NFPA) 1041 Standard for Fire Instructor Professional Qualifications (2012).

A. REQUIRED COURSES

All courses from the following (27 units):

FIR 172D Instructor I: Instructional Methodology
FIR 172E Instructor II: Instructional Development
FIR 181A Company Officer 2A: Human Resource Management
FIR 181B Company Officer 2B: General Administrative Functions
FIR 181C Company Officer 2C: Fire Inspections and Investigations
FIR 181D Company Officer 2D: All-Risk Command Operations
FIR 181E Company Officer 2E: Wildland Incident Operations
FIR 182A Chief Fire Officer 3A: Human Resource Management
FIR 182B Chief Fire Officer 3B: Budget and Fiscal Responsibilities
FIR 182C Chief Fire Officer 3C: General Administrative Functions
FIR 182D Chief Fire Officer 3D: Emergency Service Delivery Response

Students are required to meet with a counselor, counselor@ltcc.edu or 530-541-4660 ext. 211, to develop an educational plan. All schedules subject to change!

2017-2018 CTE Schedules – Fire Officer

Code	Description	Instructor	2017-18	Meeting Day(s)	Meeting Times	Meeting Dates
			NO CURRENT OFFERINGS			

Updated:8/2/2017 11:38 AM

LTCC offers a Certificate of Achievement and Associate Degree in *Fire Officer*. For more information, go to our website at www.ltcc.edu and click on the “Academics” tab, click on “Academic Programs” and then click on “FIRE OFFICER”.

To view the online catalog, go to our website at www.ltcc.edu and click on “ACADEMICS” tab and then click on “CATALOG”.

To view online the current schedule of classes, go to our website at www.ltcc.edu and click on the “ACADEMICS” tab and then click on “SCHEDULE OF CLASSES”.

Summer 2017	Fall 2017	Winter 2018	Spring 2018	Summer 2018	Fall 2018	Winter 2019	Spring 2019
No Offerings	No Offerings	No Offerings	No Offerings	No Offerings	No Offerings	No Offerings	No Offerings

To become a student at Lake Tahoe Community College, you will need to complete an online application before you can register for classes. Please go to our website at www.ltcc.edu, click on “Admissions”. Your application might take up to 24 hours to process prior to your being able to enroll in specific courses, so please be patient and check the LTCC email you are assigned for updates. Contact Enrollment Services at 530-541-4660 ext. 211 or enrollmentservices@ltcc.edu for information on assessment, orientation, and counseling.



Fire Science

Certificate of Achievement

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

The Fire Science certificate is designed to give students the required knowledge to pursue entry-level municipal or wildland fire service careers. Students will gain a broad working knowledge of the many aspects of fire service organization and operations, proper use of fire equipment, tactics and strategies of fire fighting, specialized job skills, and management techniques. The Fire Science program emphasizes critical thinking skills in the examination and analysis of modern fire service issues and the strengthening of effective written and oral communication skills. This program follows the United States Fire Administration's National Fire Academy, Fire and Emergency Services (FESHE) Higher Education Model.

Student Learning Outcomes for this certificate are:

- Identify minimum qualifications and entry-level skills for firefighter hiring.
- Analyze, appraise and evaluate fire and emergency incidents and identify components of emergency management and firefighter safety.
- Comprehend laws, regulations, codes and standards that influence fire department operations, and identify regulatory and advisory organizations that create and mandate them, especially in the areas of fire prevention, building codes and ordinances, and firefighter health and safety.
- Analyze the causes of fire, determine extinguishing agents and methods, differentiate the stages of the fire and fire development, and compare methods of heat transfer.
- Identify and describe common types of building construction and conditions associated with structural collapse and firefighter safety.
- Differentiate between fire detection and fire suppression systems.

A. REQUIRED COURSES:

31.5 – 33.75 units distributed as follows:

1. All courses from the following (24 units):

FIR 101 Fire Protection Organization
FIR 102 Fundamentals of Fire Prevention
FIR 103 Fire Protection Equipment and Systems
FIR 104 Building Construction for Fire Protection
FIR 105 Fire Behavior and Combustion
FIR 106 Principles of Fire and Emergency Services Safety and Survival

2. Choose a minimum of 7.5 units from:

FIR 153 Fire Hydraulics
FIR 167 Wildland Fire Safety and Hand Crew Operations:
Basic Wildland Firefighter (L-180, S-130, S-190)
HEA 140C Emergency Medical Technician (EMT)

Students are required to meet with a counselor, counselor@ltcc.edu or 530-541-4660 ext. 211, to develop an educational plan. All schedules subject to change!

*Online

2017-2018 CTE Schedules – Fire Science

Code	Description	Instructor	2017-18	Meeting Day(s)	Meeting Times	Meeting Dates
FIR-101-01	Fire Protection Organization	Ben Sharit	Fall 2017	Thursday	6:00 - 10:05PM	9/21 - 12/7/17
FIR-106-01*	Principles of Fire and Emergency Services Safety and Survival	Torril Purvis	Fall 2017	Online	Canvas	10/2 - 12/7/17
HEA-140C-01	Emergency Medical Technician (EMT)	Nate Hagenbach	Fall 2017	Tuesday and Thursday	9:00 - 11:50AM and 1:00 - 5:05PM	9/19 - 12/7/17 + 24 hours TBA
FIR-104-01	Building Construction for Fire Protection	Jim Antti	Winter 2018	Friday	9:00AM - 2:05PM	1/12 - 3/16/18
FIR-167-01	Wildland Fire Safety and Hand Crew Operations: Basic Wildland Firefighter - (L-180, S-130, S-190)	Keegan Schafer	Winter 2018	Monday - Saturday	8:00 - 11:50AM and 1:00 - 4:50PM	3/19 - 3/24/18
HEA-140C-01	Emergency Medical Technician (EMT)	Scott Blasser	Winter 2018	Tuesday, Wednesday, and Thursday	6:00 - 10:20PM	1/9 - 3/27/18 and 1/10 - 3/28/18, and 1/11 / 3/29/18 + 24 hours TBA
FIR-102-01*	Fundamentals of Fire Prevention	Art Cota	Spring 2018	Online	Canvas	4/9 - 6/28/18
HEA-140C-01	Emergency Medical Technician (EMT)	Nate Hagenbach	Spring 2018	Tuesday and Thursday	9:00 - 11:50AM and 1:00 - 4:50PM	4/10 - 6/28/18 + 24 hours TBA

*Online

Updated:9/5/2017 2:37 PM

LTCC offers a Certificate of Achievement and an Associate Degree in *Fire Science*. For more information, go to our website at www.ltcc.edu and click on the "ACADEMICS" tab, click on "ACADEMIC PROGRAMS" and then click on "[FIRE SCIENCE](#)".

To view the online catalog, go to our website at www.ltcc.edu and click on "ACADEMICS" tab and then click on "[CATALOG](#)".

To view online the current schedule of classes, go to our website at www.ltcc.edu and click on the "ACADEMICS" tab and then click on "[SCHEDULE OF CLASSES](#)".

Summer 2017	Fall 2017	Winter 2018	Spring 2018	Summer 2018	Fall 2018	Winter 2019	Spring 2019
No Offerings	FIR 101-01	FIR 104-01	FIR 102-01*	No Offerings	FIR 101-01	FIR 105-01*	FIR 103-01
	FIR 106-01*	FIR 167-01			FIR 153-01*	FIR 167-01	

*Online

To become a student at Lake Tahoe Community College, you will need to complete an online application before you can register for classes. Please go to our website at www.ltcc.edu, click on "[Admissions](#)". Your application might take up to 24 hours to process prior to your being able to enroll in specific courses, so please be patient and check the LTCC email you are assigned for updates. Contact Enrollment Services at 530-541-4660 ext. 211 or enrollmentservices@ltcc.edu for information on assessment, orientation, and counseling.

2016-17

STUDENT LEARNING OUTCOME ASSESSMENT SUMMARY

FIRE SCIENCE

THERE WERE SIX ASSESSMENT REPORTS COMPLETED IN 2016-17:

COURSE CODE AND TITLE	INSTRUCTOR	QUARTER	RESULTS
FIR 153 Fire Hydraulics	Torril Purvis	Fall 2016	I am satisfied with student mastery. No other resources will be necessary.
FIR-162A: Professional Firefighter Training Program: Part 1	Scott Baker/Jim Drennan/Brad Zlendick	Spring 2017	All instructional methodologies and assessment methods are adhered to in accordance with SFMO regulations. No recommendations for improvement.
FIR-162B: Professional Firefighter Training Program: Part 2	Scott Baker/Jim Drennan/Brad Zlendick	Spring 2017	All instructional methodologies and assessment methods are adhered to in accordance with SFMO regulations. No recommendations for improvement.
FIR-162C: Professional Firefighter Training Program: Part 3	Scott Baker/Jim Drennan/Brad Zlendick	Spring 2017	All instructional methodologies and assessment methods are adhered to in accordance with SFMO regulations. No recommendations for improvement.
FIR-162D: Professional Firefighter Training Program: Part 4	Scott Baker/Jim Drennan/Brad Zlendick	Spring 2017	All instructional methodologies and assessment methods are adhered to in accordance with SFMO regulations. No recommendations for improvement.
FIR-162E: Professional Firefighter Training Program: Part 5	Jim Drennan/Brad Zlendick	Spring 2017	All instructional methodologies and assessment methods are adhered to in accordance with SFMO regulations. No recommendations for improvement.