



Agenda

Fire Science Advisory Committee

Lake Tahoe Community College

Wednesday December 5th, 2018

3:00-4:30pm

Aspen Room

- Welcome and Introductions
- General Discussion/Feedback from Industry Partners
- Program Updates:
 - Fire In-Service
 - Fire Officer
 - Fire Science
 - Lake Tahoe Basin Fire Academy (Class 13)
 - Update on re-accreditation
 - South Bay Regional PSTC (JPA)
- Brandman University/BA in Applied Studies
- Bond Updates
- Perkins



Fire Science Advisory Committee Meeting Minutes December 5th, 2018

- **Welcome and Introductions**

- Meeting called to order at 3:06 p.m.
- LTCC Staff Attendance:
 - Allen, Leona – Lake Tahoe Basin Fire Academy Adjunct Faculty
 - Bailey, Trenton – Student Representative
 - Borges, Karen – Board of Trustees
 - Creamer, Noel – Student Representative
 - Crotty, John – Lake Tahoe Basin Fire Academy Adjunct Faculty
 - Deeds, Brad – Dean of Workforce Development and Instruction
 - Hagenbach, Nate – Lake Tahoe Basin Fire Academy Adjunct Faculty and Emergency Medical Technician PT Academic Director/Clinical Coordinator
 - Hughes, Terry – Lake Tahoe Basin Fire Academy Skills Director
 - Liggett, Melissa – Career and Technical Education Program Technician
 - Marion, David – Fire Science Adjunct Faculty
 - Martin, Bruce – Fire Science Adjunct Faculty
 - Medina, Tristy – Work Experience Assistant Program Assistant
 - Robillard, Jennifer – Lake Tahoe basin Fire Academy Administrative Coordinator
 - Roe, Ed – Lake Tahoe Basin Fire Academy Equipment Coordinator/Adjunct Faculty
 - Schafer, Keegan – Fire Science Adjunct Faculty
 - Stroup, Todd – Fire Science Adjunct Faculty
 - Thyfault, Betsy – Vice President Student Senate
 - Rhone, Jamie – Career and Technical Education Program Specialist
- Workforce Partners, Stakeholders, Regional Collaborators:
 - Crosta, Courtney – Roseville Campus Academic Advisory I, Brandman University
 - Crown, Amy – Community & Corporate Relations Manager, Brandman University
 - Fellows, Raymond – Roseville Campus One Stop Specialist I, Brandman University
 - Lagano, Sarah – Captain/Paramedic, North Tahoe Fire Protection District/Meeks Bay
 - Pellow, Kimberly – Roseville Campus Director, Brandman University
 - Pevenage, Steve – Battalion Chief Lake Tahoe Valley Fire Protection District

- **Member Reports/Program Updates**

- Lake Tahoe Basin Fire Academy (LTBFA)
 - **Class 12 (2017-18) update** - Many cadets have been hired by strike teams or other agencies. Benjamin Booker was class commander and is currently interning with Lake Valley Fire Protection District (LVFPD) through Lake Tahoe Community College's (LTCC) Internship Program. The Internship Department is hoping to include North Tahoe Fire Department (Tahoe City) in the future. Anika Burkhart was recently hired with Truckee Meadows Fire Protection District. Heidi Strahl, Assistant Class Commander, was the

first female to be hired by Zephyr Cove Fire Crew. Due to yearly fundraising, two \$1,000 scholarships were awarded to two cadets.

- **Class 13 (2018-19) update-** Cadets are from all over the region, including Nevada, and vary in age. They started the year with 32 cadets, four of them female. LTBFA has a phenomenal group of instructors from all over the basin. Terry Hughes', LTBFA Training Director, reported cadet training has been conducted mostly off the hill. Most of the training used to be at the City of South Lake Tahoe's Airport but due to a major production company filming on site (Top Gun 2), they have been going to Eastern Alpine Fire Rescue (EAFR) in Alpine County. The airport is preferred as one of the main training grounds due large amount of space available and its accessibility to a fire hydrant.
- **Storage space** - The LTBFA previously shared the airport hangar with the City of South Lake Tahoe Fire Rescue (SLTFR) for storage; it has been difficult to find a suitable replacement for the mass inventory of training ladders, turnout, hoses, and a "clean space" for the Self-Contained Breathing Apparatus (SCBA) maintenance equipment. The loss of the airport hangar has also prevented the LTBFA from accepting an earlier donation of a fire engine due to lack of heated storage space. In the meantime, Conex or storage containers were purchased and placed on the airport grounds as a temporary solution. A utility vehicle and plow was also purchased to help move equipment back and forth to the training grounds.
- **Equipment** - Lack of dedicated equipment and required training props has also been an issue. To compensate, EAFR has been graciously donating their equipment and has been providing several of their volunteers in order to make things happen each year. However, Chief Hughes will be retiring soon from EAFR and the academy may not continue to have access to their resources.
- **Burn tower/Classroom space** - LTBFA had previously used Lake Valley Fire Protection District's (LVFPD) fifty-year-old burn tower, which has since been torn down. They have also have lost the use of their propane prop due to cell tower construction. As a result, cadets have been driving to Carson City and using the burn tower at the Regional Fire Training Center (RFTC)/airport. Instructors from various basin agencies and CAL FIRE have been helping with the tower drills, hose lines, and live burns. LTBFA is using the Zephyr Fire Crew in Stateline, Nevada to handle the required wildland training. Programs like the LTBFA also need specialized classrooms and the loss of the use of the LVFPD's classroom has also been a challenge.
- **Possible solutions** - A proposed solution is to build a hangar at the city's airport to store an engine and equipment. The city's Fire Chief, Jeff Meston, also suggested looking into renovating the airport's old FAA tower. It has been unused and sitting locked up for nearly 18 years and could be used as a training tower. Other suggestions have been renting a portable training tower.
- **New curriculum** - In 2013, California State Fire Training implemented new curriculum to include fewer hours in the classroom and more on the training ground. Cadets need to complete at least six months of volunteer or 12 months of paid work, have their task book signed, and pass certification testing. The caveat is a person who trains someone in a particular skill cannot test for that skill. The process takes more time and money and can become problematic for schools struggling to find a certified testing site. The LTBFA's re-accreditation site visit will happen in 2020. A mid-cycle review is also expected this year. The lack of facilities will be a problem in getting re-accredited. Traveling across state lines to Carson City could potentially be a challenge

for state fire training personnel. Lake Tahoe is a bi-state operational area and LTBFA has various partners throughout the region, including Tahoe Douglas Fire Protection District (TDFPD). There is a new State Fire Division Chief overseeing state fire training and it is unknown if he will approve any fire training conducted in another state.

- **Measure F** - The General Obligation Bond (Measure F) was passed in 2014 and was designed around the concept of taking \$55 million in taxpayer dollars and leveraging that into significantly more dollars through private donations and matching state grants. LTCC has a number of bond projects to get through in Series, A, then B, then C, etc. A Regional Public Safety Training Center (RPSTC) is one of the projects on the list but requires significant matching state funds. California Governor Jerry Brown has not released state matching funds as expected, and as approved by the California voters. The college needs assistance to unlock state matching funds once it gets to series C bonds and beyond. The collective challenge is that interested parties (including agency personnel) may need to use their voice to secure the funds. Terry Hughes and Leona Allen have done a stellar job running the program and have leveraged all of the resources available. LVFPD, SLTFR, EAFR and TDFPD have also invested significantly in the program. **It is imperative that changes happen soon to ensure the fire academy achieves re-accreditation in 2020.**

- CAL FIRE

- Captain Placke, CAL FIRE – Station 5 South Lake Tahoe, helps LTBFA with cadet training. He also teaches a “CAL FIRE Bridge” class in the spring, which helps cadets get a basic certification for employment with CAL FIRE. They are working to accept the basic California FF1, eventually making the CAL FIRE certification no longer needed. CAL FIRE is working with State Fire Training accreditation team to see if they can get a site visit to happen at their Nevada facility. CAL FIRE and State Fire Training are two different agencies and they would like to bridge some of the differences.

- Fire Science (FS)

- Fire is the number one program at LTCC, with 330 FTES combined between Fire Academy, Instructional Service Agreements, Fire Science courses, and the partnership with the South Bay Regional Public Safety Training Consortium, referred to at the college as the JPA. This combined FTES represents nearly 20% of the apportionment generated for the entire college. LTCC is also partnering with the Industrial Emergency Council (IEC) to offer Aircraft Rescue and Fire Fighting (ARFF) and further fire ISA courses.

- **Brandman University**

- LTCC has partnered with Brandman University, part of Chapman University, to offer a degree in Liberal Studies, leading to a multiple subject teaching credential. The degree provides a pathway for local students to achieve both the degree and credential needed to become a working teacher in California. Brandman is also offering an Applied Studies degree, which would be great for first responders or anyone with many college units.

- **Perkins**

- Perkins funding helps the Career & Technical Education department provide a Quarterly Textbook Lending Program, which provides textbooks for eligible students who are pursuing a CTE degree or certificate.
- **Adjournment**
 - The meeting adjourned at 4:27 p.m.
- **Handouts**
 - Program Reviews/Biennial Review
 - Fire Science Biennial Review (December 2018)
 - Fire Academy Program Review/Awards (2017-18)
 - Fire Officer Program Review (2017-18)
 - Fire Science Program Review/Awards(2017-18)
 -
 - Brandman University
 - Bachelor of Arts in Applied Studies Flyer
 - Brandman University/LTCC Partnership Questionnaire

Respectively submitted,
Melissa Liggett
Career & Technical Education Technician

2017-18 ANNUAL PROGRAM REVIEW

Fire Academy

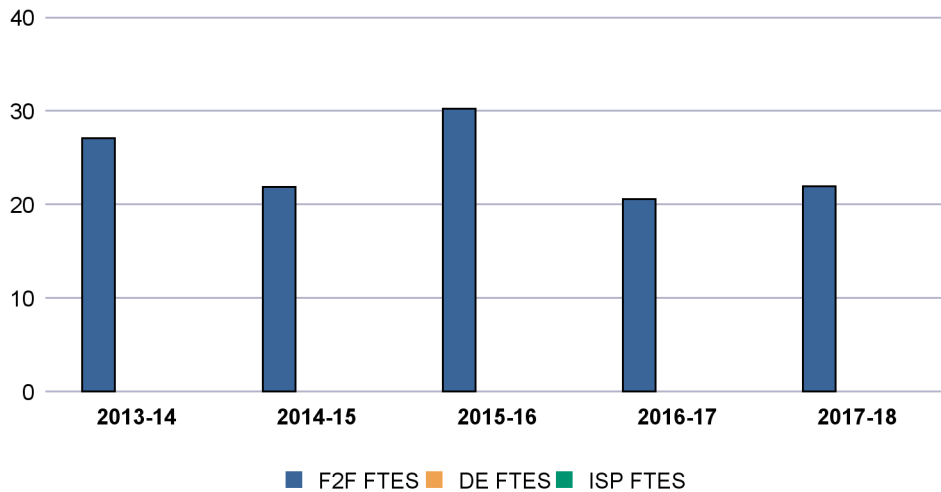


FIRE ACADEMY SUMMARY

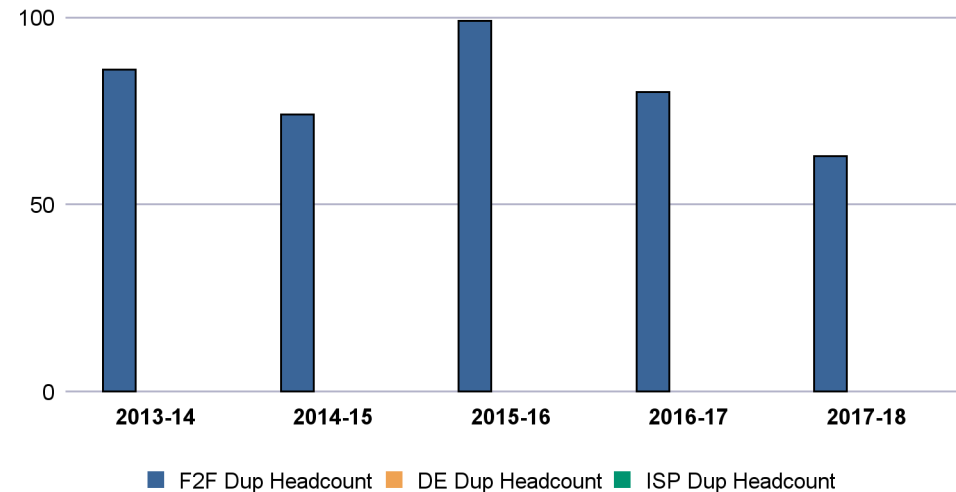
This report contains data from Academic Year (AY) 2013 to 2017. Information on program size based on full-time equivalent students (FTES), Student Success, and Student Achievement are presented below.

	Total Sections	F2F Sections	Dist Ed Sections	ISP Sections	Total FTES	F2F FTES	Dist Ed FTES	ISP FTES	Total Duplicated Headcount	F2F Duplicated Headcount	Dist Ed Duplicated Headcount	ISP Duplicated Headcount
2013-14	3	3	0	0	27.06	27.06	0.00	0.00	86	86	0	
2014-15	3	3	0	0	21.87	21.87	0.00	0.00	74	74	0	
2015-16	4	4	0	0	30.22	30.22	0.00	0.00	99	99	0	
2016-17	3	3	0	0	20.58	20.58	0.00	0.00	80	80	0	
2017-18	3	3	0	0	21.93	21.93	0.00	0.00	63	63	0	
4-Yr Chg (13-14 to 17-18)	0.0%	0.0%	---	---	-19.0%	-19.0%	---	---	-26.7%	-26.7%	---	---
1-Yr Chg (16-17 to 17-18)	0.0%	0.0%	---	---	6.6%	6.6%	---	---	-21.3%	-21.3%	---	---

RESIDENT FTES



DUPLICATED HEADCOUNT



2017-18 ANNUAL PROGRAM REVIEW

Fire Academy

DEMOGRAPHICS

	2013-14		2014-15		2015-16		2016-17		2017-18	
	N	%	N	%	N	%	N	%	N	%
Male	27	90.0%	24	88.9%	31	93.9%	25	80.6%	21	84.0%
Female	3	10.0%	3	11.1%	2	6.1%	5	16.1%	3	12.0%
Unknown	0	0.0%	0	0.0%	0	0.0%	1	3.2%	1	4.0%

	2013-14		2014-15		2015-16		2016-17		2017-18	
	N	%	N	%	N	%	N	%	N	%
African American	2	6.7%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Hispanic	7	23.3%	11	40.7%	6	18.2%	4	12.9%	5	20.0%
Native Amer/Alaska Native	1	3.3%	1	3.7%	0	0.0%	0	0.0%	0	0.0%
White Non-Hispanic	19	63.3%	15	55.6%	27	81.8%	26	83.9%	15	60.0%
Two or more races	1	3.3%	0	0.0%	0	0.0%	1	3.2%	4	16.0%
Unknown	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	4.0%

	2013-14		2014-15		2015-16		2016-17		2017-18	
	N	%	N	%	N	%	N	%	N	%
Age < 25	17	56.7%	16	59.3%	17	51.5%	17	54.8%	16	64.0%
Age 25 - 49	13	43.3%	11	40.7%	16	48.5%	14	45.2%	9	36.0%

	2013-14	2014-15	2015-16	2016-17	2017-18
Median Age	23	24	25	24	23
Youngest	18	17	17	17	18
Oldest	40	37	40	45	47

2017-18 ANNUAL PROGRAM REVIEW

Fire Academy

COURSE SUCCESS

	2013-14		2014-15		2015-16		2016-17		2017-18	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Male	76	97.4%	62	96.8%	92	100.0%	64	98.4%	49	100.0%
Female	7	100.0%	9	100.0%	6	100.0%	11	100.0%	6	100.0%
Unknown	0	0.0%	0	0.0%	0	0.0%	2	50.0%	0	0.0%

	2013-14		2014-15		2015-16		2016-17		2017-18	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
African American	6	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Hispanic	17	100.0%	30	100.0%	15	100.0%	7	100.0%	10	100.0%
Native Amer/Alaska Native	3	100.0%	3	100.0%	0	0.0%	0	0.0%	0	0.0%
White Non-Hispanic	54	96.3%	38	94.7%	83	100.0%	67	97.0%	35	100.0%
Two or more races	3	100.0%	0	0.0%	0	0.0%	3	100.0%	7	100.0%
Unknown	0	0.0%	0	0.0%	0	0.0%	0	0.0%	3	100.0%

	2013-14		2014-15		2015-16		2016-17		2017-18	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Age < 25	50	98.0%	40	95.0%	48	100.0%	42	95.2%	32	100.0%
Age 25 - 49	33	97.0%	31	100.0%	50	100.0%	35	100.0%	23	100.0%

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

2017-18 ANNUAL PROGRAM REVIEW

Fire Academy

2017-18 COURSE STATISTICS

FIRE ACADEMY PRODUCTIVITY* (2017-18):												332.48
% FULL TIME INSTRUCTORS** (2017-18):												0%
% ADJUNCT INSTRUCTORS** (2017-18):												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%	25.0	22.0	88.0%	90.9%	8.12	456	0.38	400.00
FIR-170B	LT Basin Fire Academy, Part 2	1	0.0%	0%	100%	20.0	18.0	90.0%	94.4%	6.87	357	0.38	312.99
FIR-170C	LT Basin Fire Academy, Part 3	1	0.0%	0%	100%	18.0	18.0	100.0%	100.0%	6.94	324	0.38	284.45
Total		3	0.0%	0%	100%	21.0	19.3	92.1%	94.8%	21.93	1,138	1.14	

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 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
2017-18	AA Degree	Fire Academy	4
	Certificate	Fire Academy	10
2017-18 TOTAL			14

2017-18 ANNUAL PROGRAM REVIEW

Fire Science

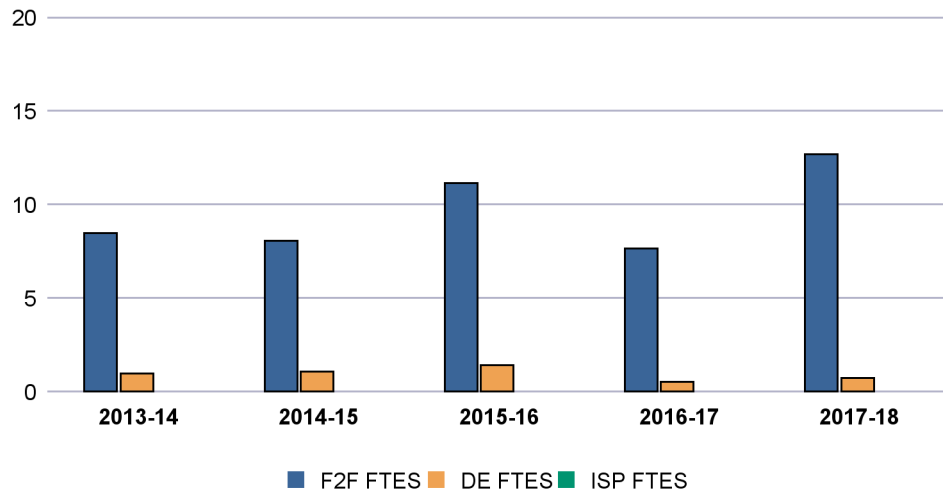


FIRE SCIENCE SUMMARY

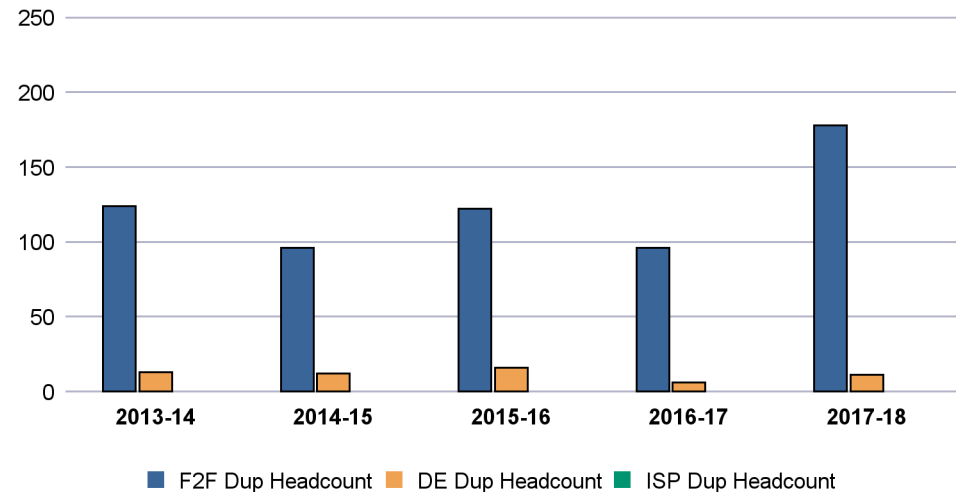
This report contains data from Academic Year (AY) 2013 to 2017. Information on program size based on full-time equivalent students (FTES), Student Success, and Student Achievement are presented below.

	Total Sections	F2F Sections	Dist Ed Sections	ISP Sections	Total FTES	F2F FTES	Dist Ed FTES	ISP FTES	Total Duplicated Headcount	F2F Duplicated Headcount	Dist Ed Duplicated Headcount	ISP Duplicated Headcount
2013-14	10	9	1	0	9.44	8.46	0.98	0.00	137	124	13	
2014-15	11	10	1	0	9.13	8.07	1.07	0.00	108	96	12	
2015-16	11	9	2	0	12.55	11.13	1.42	0.00	138	122	16	
2016-17	13	12	1	0	8.17	7.64	0.53	0.00	102	96	6	
2017-18	16	14	2	0	13.41	12.70	0.71	0.00	189	178	11	
4-Yr Chg (13-14 to 17-18)	60.0%	55.6%	100.0%	---	42.1%	50.1%	-27.3%	---	38.0%	43.5%	-15.4%	---
1-Yr Chg (16-17 to 17-18)	23.1%	16.7%	100.0%	---	64.2%	66.4%	33.3%	---	85.3%	85.4%	83.3%	---

RESIDENT FTES



DUPLICATED HEADCOUNT



2017-18 ANNUAL PROGRAM REVIEW

Fire Science

DEMOGRAPHICS

	2013-14		2014-15		2015-16		2016-17		2017-18	
	N	%	N	%	N	%	N	%	N	%
Male	66	93.0%	67	93.1%	99	88.4%	71	86.6%	110	86.6%
Female	4	5.6%	5	6.9%	11	9.8%	8	9.8%	15	11.8%
Unknown	1	1.4%	0	0.0%	2	1.8%	3	3.7%	2	1.6%

	2013-14		2014-15		2015-16		2016-17		2017-18	
	N	%	N	%	N	%	N	%	N	%
African American	1	1.4%	0	0.0%	13	11.6%	6	7.3%	10	7.9%
Asian	1	1.4%	1	1.4%	3	2.7%	1	1.2%	0	0.0%
Hispanic	12	16.9%	17	23.6%	40	35.7%	19	23.2%	42	33.1%
Native Amer/Alaska Native	3	4.2%	2	2.8%	1	0.9%	1	1.2%	1	0.8%
Pacific Islander	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
White Non-Hispanic	49	69.0%	51	70.8%	49	43.8%	49	59.8%	58	45.7%
Two or more races	4	5.6%	1	1.4%	6	5.4%	6	7.3%	14	11.0%
Unknown	1	1.4%	0	0.0%	0	0.0%	0	0.0%	2	1.6%

	2013-14		2014-15		2015-16		2016-17		2017-18	
	N	%	N	%	N	%	N	%	N	%
Age < 25	47	66.2%	35	48.6%	83	74.1%	55	67.1%	93	73.2%
Age 25 - 49	23	32.4%	37	51.4%	29	25.9%	27	32.9%	34	26.8%
Age 50 +	1	1.4%	0	0.0%	0	0.0%	0	0.0%	0	0.0%

	2013-14		2014-15		2015-16		2016-17		2017-18	
	N	%	N	%	N	%	N	%	N	%
Median Age	23		25		22		22		21	
Youngest	17		17		16		17		17	
Oldest	51		46		42		46		46	

2017-18 ANNUAL PROGRAM REVIEW

Fire Science

COURSE SUCCESS

	2013-14		2014-15		2015-16		2016-17		2017-18	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Male	125	93.6%	93	92.5%	115	95.7%	89	95.5%	159	87.4%
Female	5	80.0%	6	83.3%	16	100.0%	8	100.0%	21	90.5%
Unknown	1	100.0%	0	0.0%	2	100.0%	3	100.0%	2	100.0%

	2013-14		2014-15		2015-16		2016-17		2017-18	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
African American	2	100.0%	0	0.0%	14	100.0%	8	100.0%	14	100.0%
Asian	1	100.0%	1	100.0%	3	100.0%	1	100.0%	0	0.0%
Hispanic	17	88.2%	23	91.3%	51	94.1%	27	96.3%	71	88.7%
Native Amer/Alaska Native	4	100.0%	2	100.0%	2	100.0%	1	100.0%	0	0.0%
White Non-Hispanic	96	94.8%	71	91.5%	56	96.4%	56	94.6%	73	84.9%
Two or more races	10	80.0%	2	100.0%	7	100.0%	7	100.0%	20	95.0%
Unknown	1	100.0%	0	0.0%	0	0.0%	0	0.0%	4	50.0%

	2013-14		2014-15		2015-16		2016-17		2017-18	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Age < 25	89	93.3%	47	87.2%	96	96.9%	73	94.5%	143	89.5%
Age 25 - 49	40	92.5%	52	96.2%	37	94.6%	27	100.0%	39	82.1%
Age 50 +	2	100.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%

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

2017-18 ANNUAL PROGRAM REVIEW

Fire Science

2017-18 COURSE STATISTICS

FIRE SCIENCE PRODUCTIVITY* (2017-18):											219.58
% FULL TIME INSTRUCTORS** (2017-18):											0%
% ADJUNCT INSTRUCTORS** (2017-18):											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%	13.0	11.0	84.6%	81.8%	1.24	56	0.08	223.60
FIR-104	Bldg Const Fire Protection	1	0.0%	0%	100%	8.0	8.0	100.0%	87.5%	0.73	32	0.08	127.20
FIR-132	FIR Work Experience	7	28.6%			15.8	15.8	100.0%	81.0%	4.31	0	0.00	---
FIR-133	Intern-Occupational Work Exp.	6	50.0%			2.7	2.3	87.5%	100.0%	0.62	0	0.00	---
FIR-167	WldInd Fire Sfty-Hnd Crw Ops	5	40.0%	0%	100%	20.7	20.7	100.0%	95.2%	5.20	240	0.17	479.34
FIR-191HM	ST:CAL FIRE Basic Supp Module	1	0.0%			8.0	8.0	100.0%	100.0%	0.59	26	0.00	---
Total		21	33.3%	0%	100%	12.7	12.5	98.3%	88.0%	12.70	353	0.33	

DISTANCE EDUCATION		Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTES	WSCH	FTEF	Productivity
FIR-102	Fundamentals-Fire Prevention	1	0.0%	0%	100%	5.0	4.0	80.0%	75.0%	0.36	20	0.08	80.00
FIR-106	Prnc Fire & Emergency Service	1	0.0%	0%	100%	6.0	3.0	50.0%	100.0%	0.36	24	0.08	96.00
Total		2	0.0%	0%	100%	5.5	3.5	63.6%	85.7%	0.71	44	0.17	

* 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 SCIENCE (FIR)

SUMMARY

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

Year	Award Type	Title	# of Awards
2012-13	AA Degree	Fire Science	3
	Certificate	Firefighter I	4
	Certificate	Fire Science	1
2012-13 TOTAL			8
2013-14	AA Degree	Fire Science	1
	Certificate	Firefighter I	6
2013-14 TOTAL			7
2014-15	AA Degree	Fire Science	1
	Certificate	Firefighter I	1
2014-15 TOTAL			2
2015-16	AA Degree	Fire Science	3
2015-16 TOTAL			3
2016-17	AA Degree	Fire Science	1
2016-17 TOTAL			1
2017-18	Certificate	Fire Science	1
2017-18 TOTAL			1

2018-19 ANNUAL PROGRAM REVIEW

Fire Officer

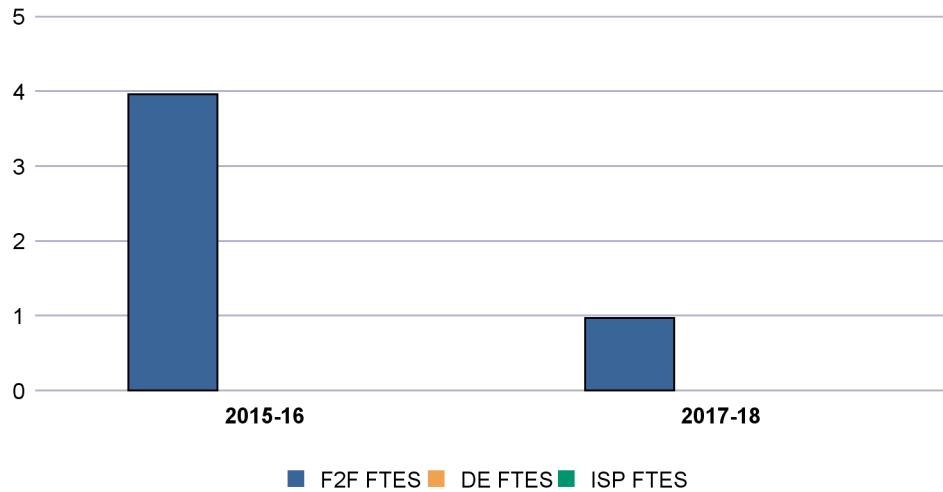


FIRE OFFICER SUMMARY

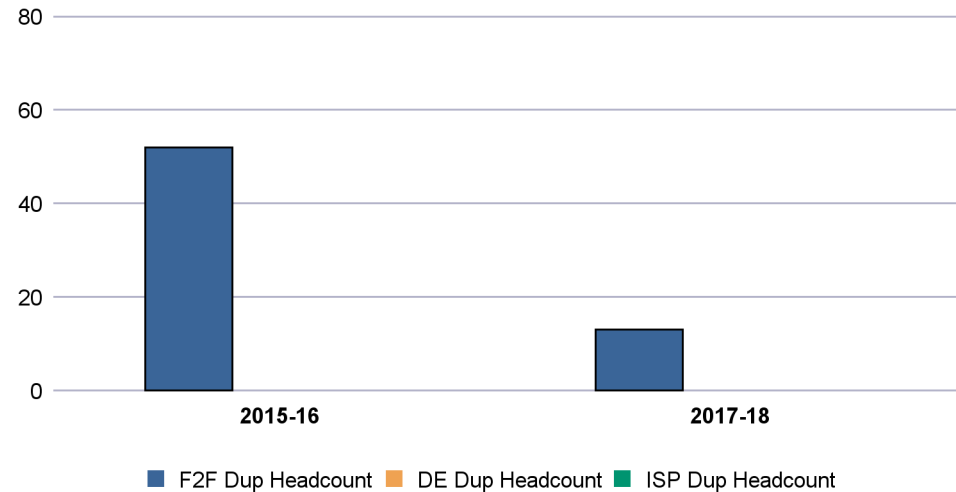
This report contains data from Academic Year (AY) 2013 to 2018. Information on program size based on full-time equivalent students (FTES), Student Success, and Student Achievement are presented below.

	Total Sections	F2F Sections	Dist Ed Sections	ISP Sections	Total FTES	F2F FTES	Dist Ed FTES	ISP FTES	Total Duplicated Headcount	F2F Duplicated Headcount	Dist Ed Duplicated Headcount	ISP Duplicated Headcount
2015-16	3	3	0	0	3.96	3.96	0.00	0.00	52	52	0	
2017-18	1	1	0	0	0.97	0.97	0.00	0.00	13	13	0	
1-Yr Chg (15-16 to 17-18)	-66.7%	-66.7%	---	---	-75.6%	-75.6%	---	---	-75.0%	-75.0%	---	---
1-Yr Chg (15-16 to 17-18)	0.0%	0.0%	---	---	0.0%	0.0%	---	---	0.0%	0.0%	---	---

RESIDENT FTES



DUPLICATED HEADCOUNT



2018-19 ANNUAL PROGRAM REVIEW

Fire Officer

DEMOGRAPHICS

	2015-16		2017-18	
	N	%	N	%
Male	38	88.4%	13	100.0%
Female	5	11.6%	0	0.0%

	2015-16		2017-18	
	N	%	N	%
African American	1	2.3%	0	0.0%
Asian	2	4.7%	2	15.4%
Hispanic	4	9.3%	0	0.0%
White Non-Hispanic	33	76.7%	10	76.9%
Two or more races	1	2.3%	0	0.0%
Other	0	0.0%	1	7.7%
Unknown	2	4.7%	0	0.0%

	2015-16		2017-18	
	N	%	N	%
Age 25 - 49	33	76.7%	11	84.6%
Age 50 +	10	23.3%	2	15.4%

	2015-16		2017-18	
	N	%	N	%
Median Age	45		43	
Youngest	34		27	
Oldest	58		67	

2018-19 ANNUAL PROGRAM REVIEW

Fire Officer

COURSE SUCCESS

	2015-16		2017-18	
	Enrollment	Success	Enrollment	Success
Male	45	100.0%	13	100.0%
Female	7	100.0%	0	0.0%

	2015-16		2017-18	
	Enrollment	Success	Enrollment	Success
African American	2	100.0%	0	0.0%
Asian	3	100.0%	2	100.0%
Hispanic	6	100.0%	0	0.0%
White Non-Hispanic	38	100.0%	10	100.0%
Two or more races	1	100.0%	0	0.0%
Other	0	0.0%	1	100.0%
Unknown	2	100.0%	0	0.0%

	2015-16		2017-18	
	Enrollment	Success	Enrollment	Success
Age 25 - 49	40	100.0%	11	100.0%
Age 50 +	12	100.0%	2	100.0%

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

2018-19 ANNUAL PROGRAM REVIEW

Fire Officer

2018-19 COURSE STATISTICS

FIRE OFFICER PRODUCTIVITY* (2018-19): % FULL TIME INSTRUCTORS** (2018-19): % ADJUNCT INSTRUCTORS** (2018-19):											
---	--	--	--	--	--	--	--	--	--	--	--

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

2017-18 ANNUAL PROGRAM REVIEW

South Bay Regional PSTC

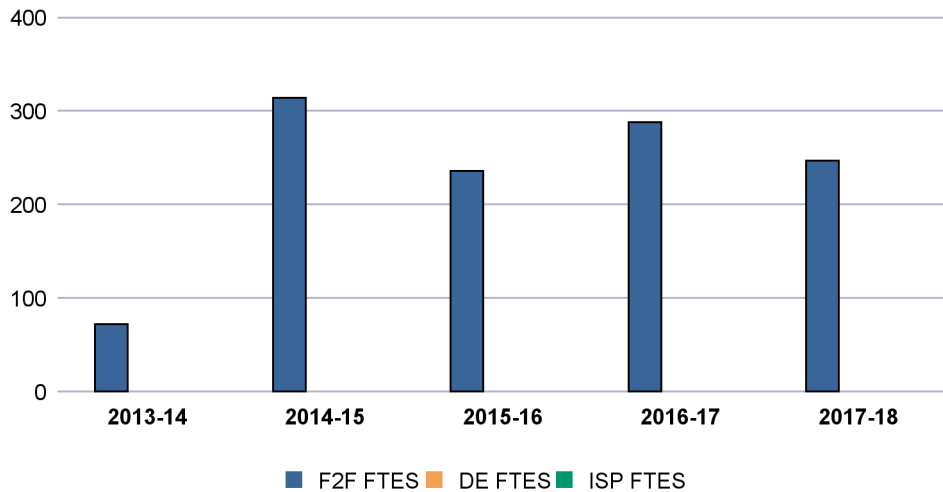


SOUTH BAY REGIONAL PSTC SUMMARY

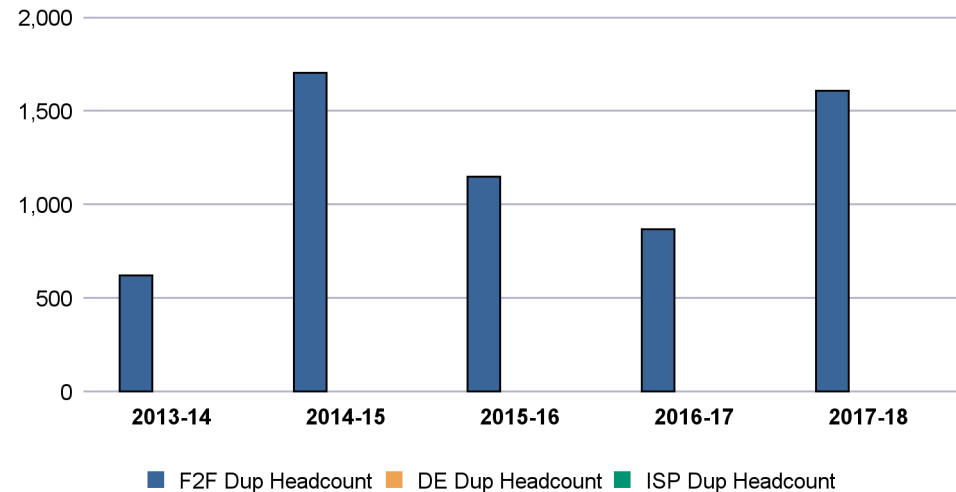
This report contains data from Academic Year (AY) 2013 to 2017. Information on program size based on full-time equivalent students (FTES), Student Success, and Student Achievement are presented below.

	Total Sections	F2F Sections	Dist Ed Sections	ISP Sections	Total FTES	F2F FTES	Dist Ed FTES	ISP FTES	Total Duplicated Headcount	F2F Duplicated Headcount	Dist Ed Duplicated Headcount	ISP Duplicated Headcount
2013-14	26	26	0	0	72.29	72.29	0.00	0.00	622	622	0	
2014-15	60	60	0	0	314.35	314.35	0.00	0.00	1,704	1,704	0	
2015-16	52	52	0	0	236.03	236.03	0.00	0.00	1,150	1,150	0	
2016-17	21	21	0	0	288.03	288.03	0.00	0.00	868	868	0	
2017-18	34	34	0	0	247.20	247.20	0.00	0.00	1,609	1,609	0	
4-Yr Chg (13-14 to 17-18)	30.8%	30.8%	---	---	242.0%	242.0%	---	---	158.7%	158.7%	---	---
1-Yr Chg (16-17 to 17-18)	61.9%	61.9%	---	---	-14.2%	-14.2%	---	---	85.4%	85.4%	---	---

RESIDENT FTES



DUPLICATED HEADCOUNT



2017-18 ANNUAL PROGRAM REVIEW

South Bay Regional PSTC

DEMOGRAPHICS

	2013-14		2014-15		2015-16		2016-17		2017-18	
	N	%	N	%	N	%	N	%	N	%
Male	423	95.7%	1,109	95.1%	836	94.7%	751	95.9%	1,306	91.1%
Female	19	4.3%	56	4.8%	45	5.1%	31	4.0%	126	8.8%
Unknown	0	0.0%	1	0.1%	2	0.2%	1	0.1%	1	0.1%

	2013-14		2014-15		2015-16		2016-17		2017-18	
	N	%	N	%	N	%	N	%	N	%
African American	11	2.5%	48	4.1%	40	4.5%	28	3.6%	42	2.9%
Asian	15	3.4%	65	5.6%	40	4.5%	55	7.0%	80	5.6%
Hispanic	86	19.5%	199	17.1%	161	18.2%	172	22.0%	339	23.7%
Native Amer/Alaska Native	4	0.9%	8	0.7%	2	0.2%	3	0.4%	8	0.6%
Pacific Islander	4	0.9%	7	0.6%	7	0.8%	7	0.9%	14	1.0%
White Non-Hispanic	273	61.8%	648	55.6%	489	55.4%	407	52.0%	684	47.7%
Two or more races	6	1.4%	33	2.8%	27	3.1%	20	2.6%	15	1.0%
Other	6	1.4%	15	1.3%	12	1.4%	5	0.6%	16	1.1%
Unknown	37	8.4%	143	12.3%	105	11.9%	86	11.0%	235	16.4%

	2013-14		2014-15		2015-16		2016-17		2017-18	
	N	%	N	%	N	%	N	%	N	%
Age < 25	52	11.8%	102	8.7%	93	10.5%	76	9.7%	48	3.3%
Age 25 - 49	326	73.8%	906	77.7%	697	78.9%	579	73.9%	1,187	82.8%
Age 50 +	64	14.5%	157	13.5%	93	10.5%	128	16.3%	198	13.8%
Age Unknown	0	0.0%	1	0.1%	0	0.0%	0	0.0%	0	0.0%

	2013-14	2014-15	2015-16	2016-17	2017-18
Median Age	41	40	36	43	40
Youngest	18	18	15	18	17
Oldest	62	63	65	68	74

2017-18 ANNUAL PROGRAM REVIEW

South Bay Regional PSTC

COURSE SUCCESS

	2013-14		2014-15		2015-16		2016-17		2017-18	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Male	590	100.0%	1,617	99.9%	1,090	100.0%	833	99.5%	1,473	98.0%
Female	32	100.0%	86	100.0%	57	100.0%	34	97.1%	132	96.2%
Unknown	0	0.0%	1	100.0%	3	100.0%	1	100.0%	1	100.0%

	2013-14		2014-15		2015-16		2016-17		2017-18	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
African American	21	100.0%	65	100.0%	50	100.0%	36	100.0%	44	100.0%
Asian	19	100.0%	97	100.0%	57	100.0%	67	100.0%	90	100.0%
Hispanic	122	100.0%	297	100.0%	209	100.0%	183	98.9%	353	98.0%
Native Amer/Alaska Native	4	100.0%	8	100.0%	5	100.0%	3	100.0%	8	100.0%
Pacific Islander	9	100.0%	7	100.0%	8	100.0%	7	100.0%	14	100.0%
White Non-Hispanic	380	100.0%	956	99.9%	624	100.0%	444	99.3%	804	97.9%
Two or more races	11	100.0%	50	100.0%	35	100.0%	22	100.0%	16	100.0%
Other	10	100.0%	24	100.0%	16	100.0%	6	100.0%	16	68.8%
Unknown	46	100.0%	200	100.0%	146	100.0%	100	100.0%	261	98.1%

	2013-14		2014-15		2015-16		2016-17		2017-18	
	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success	Enrollment	Success
Age < 25	62	100.0%	122	100.0%	115	100.0%	76	98.7%	49	91.8%
Age 25 - 49	473	100.0%	1,380	99.9%	938	100.0%	655	99.4%	1,346	98.0%
Age 50 +	87	100.0%	201	100.0%	97	100.0%	137	100.0%	211	98.6%
Age Unknown	0	0.0%	1	100.0%	0	0.0%	0	0.0%	0	0.0%

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

2017-18 ANNUAL PROGRAM REVIEW

South Bay Regional PSTC

2017-18 COURSE STATISTICS

SOUTH BAY REGIONAL PSTC PRODUCTIVITY* (2017-18):											857.64
% FULL TIME INSTRUCTORS** (2017-18):											0%
% ADJUNCT INSTRUCTORS** (2017-18):											100%

FACE TO FACE	Sections Offered	Cancel %	FT % **	Adjunct % **	Avg Census Enroll	Avg End of Term Enroll	Retention % ***	Success % ***	FTEs	WSCH	FTEF	Productivity
CRJ-191AD ST: Law Enforce Gang Training	1	0.0%	0%	100%	445.0	445.0	100.0%	100.0%	23.73	1,113	0.05	7,120.05
FIR-162A Prof. Firefighter Train Part 1	5	0.0%	0%	100%	111.4	111.4	100.0%	94.6%	40.05	4,595	0.86	1,782.30
FIR-162B Prof. Firefighter Train Part 2	4	25.0%	0%	100%	42.3	42.3	100.0%	98.4%	46.43	2,127	1.05	677.33
FIR-162C Prof. Firefighter Train Part 3	1	0.0%	0%	100%	94.0	94.0	100.0%	100.0%	53.52	2,350	0.52	1,504.00
FIR-162D Prof. Firefighter Train Part 4	1	0.0%	0%	100%	32.0	32.0	100.0%	100.0%	24.32	1,064	0.69	512.00
FIR-170D Firefighter I Academy (JPA)	2	0.0%	0%	100%	22.5	22.5	100.0%	91.1%	40.49	1,869	1.73	360.23
FIR-172D Instructor I: Instruc Method	5	20.0%	0%	100%	12.3	12.3	100.0%	100.0%	3.73	172	0.29	196.00
FIR-172E Instructor II: Instr Develop	2	50.0%	0%	100%	16.0	16.0	100.0%	100.0%	1.22	56	0.07	256.00
FIR-173B Fire Investigation 1B	2	50.0%	0%	100%	19.0	19.0	100.0%	100.0%	1.41	62	0.07	304.00
FIR-180F FAD/O 1A: Emerg Vehicle Ops	1	0.0%	0%	100%	10.0	10.0	100.0%	100.0%	0.74	33	0.07	160.00
FIR-181A Company Officer 2A: HR Mgmt	3	33.3%	0%	100%	10.0	10.0	100.0%	100.0%	1.52	70	0.15	160.00
FIR-181B Company Officer 2B: Gen Admin	3	66.7%	0%	100%	12.0	12.0	100.0%	100.0%	0.55	24	0.04	192.00
FIR-181C Company Ofc 2C: Fire Insp-Invs	2	50.0%	0%	100%	11.0	11.0	100.0%	100.0%	0.84	39	0.07	176.00
FIR-181D Company Ofcr 2D: All-Risk Comm	2	50.0%	0%	100%	15.0	15.0	100.0%	100.0%	1.14	53	0.07	240.00
FIR-181E Company Ofc 2E: Wldlnd Incdnt	3	66.7%	0%	100%	14.0	14.0	100.0%	100.0%	1.07	49	0.07	224.00
FIR-182A Chief Fire Ofcr 3A: HR Mgmt	2	0.0%	0%	100%	16.5	16.5	100.0%	100.0%	1.62	83	0.10	264.00
FIR-182B Chief Fire Ofcr 3B: Bdgt-Fisc	1	0.0%	0%	100%	25.0	25.0	100.0%	100.0%	0.76	38	0.03	400.00
FIR-182C Chief Fire Ofcr 3C: Gen Admin	2	0.0%	0%	100%	18.5	18.5	100.0%	97.3%	1.65	74	0.08	296.00
FIR-182D Chief Fire Ofcr 3D: Emerg Serv	2	0.0%	0%	100%	20.5	20.5	100.0%	100.0%	1.87	82	0.08	328.01
FIR-191HQ ST: Fire Investigation 1A	1	0.0%	0%	100%	7.0	7.0	100.0%	100.0%	0.53	25	0.07	112.00
FIR-191HR ST: I-300: Intermediate ICS	1	100.0%					0.0%			0		---
FIR-191HS ST: I-400: Advanced ICS	1	100.0%					0.0%			0		---
HEA-140D Outdoor Emergency Care	1	100.0%					0.0%			0		---
Total	48	29.2%	0%	100%	47.3	47.3	100.0%	97.7%	247.20	13,974	6.18	

2017-18 ANNUAL PROGRAM REVIEW

South Bay Regional PSTC

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.