

FIRE SCIENCE

PROGRAM REVIEW 09-10

ONE COLLEGE WAY
BLYTHE, CA 92225

Board Approved 1/25/11

EXECUTIVE SUMMARY

FIRE SCIENCE

The committee encourages the fire science program to continue its efforts in fulfilling the goals of its 2-year plan, as noted in section 6 of this report.

PART 1: PURPOSE OF THIS PROGRAM

The purpose of the program is to provide first responders of California with the necessary skills to work in their ever-changing environment. Palo Verde College will continue to contract with the most highly skilled educators to provide state-of-the-art fire training in the State of California.

PART 2: DEMAND FOR THIS PROGRAM

Projections of Employment by Occupation, 2006 - 2016

Occupations Matched to Top

Code(s):

213310 *Wildland Fire*

Technology

Geography: Riverside-San Bernardino-Ontario MSA

Counties: Riverside County, San Bernardino County

Annual Job Openings by Occupation

SOC Code	Occupation Title (Link to Occupation Profile)	2006 Employment	Annual Job Openings ¹
332011	Fire Fighters	2,410	119
	Total	2,410	119

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¹Total Job Openings are the sum of new jobs from growth plus net replacements. Annual job openings are total job openings divided by the number of years in the projection period.

²This occupation has been suppressed due to confidentiality.

PART 3: QUALITY OF THIS PROGRAM

Currently, we do not have a mechanism in place to counsel the majority of FST students. The Associate Dean of CTE is working on a data base that will allow PVC to encourage students to petition to graduate. PVC has recently updated the degree and certificates to facilitate this project as well as give the college a program to begin marketing online.

PART 4: EXTERNAL ISSUES

The Fire Program continues to try and keep pace with the changing curriculum at the State Fire Marshal's office. Course content is being modified continually.

PART 5: COST OF THIS PROGRAM

SUMMER 2008-2009			
Course Code	Course Title	Credit	Enrollment
FST 080 01	Basic Firefighter Skills	.50	52
FST 080 02	Basic Firefighter Skills	.50	7
FST 080 03	Basic Firefighter Skills	.50	51
FST 080 04	Basic Firefighter Skills	.50	19
FST 080 05	Basic Firefighter Skills	.50	26
FST 080 06	Basic Firefighter Skills	.50	59
FST 080 07	Basic Firefighter Skills	.50	60
FST 080 08	Basic Firefighter Skills	.50	17
FST 080 09	Basic Firefighter Skills	.50	30
FST 080 A	Basic Firefighter Skills	.50	31
FST 080 B	Basic Firefighter Skills	.50	37
FST 080 C	Basic Firefighter Skills	.50	31
FST 152 01	Basic Chemistry, Module 1A Haz Mat Tech	2	12
FST 152 02	Basic Chemistry, Module 1A Haz Mat Tech	2	6
FST 153 01	Applied Chemistry	2	11
FST 153 02	Applied Chemistry	2	7
FST 157 01	Special Mit Techniques Module 1F Haz Mat Spec.	2	23
FST 158 01	Advanced Field Operations Module G	2	23
FST 165 01	Confined Space Rescue Operations	1	36

FST 174 01	Rescue Systems II	2	18
FST 174 02	Rescue Systems II	2	24
FST 182 01	Management I	2	13
FST 199 01	Fire command 2C	1.5	12
FST 205 01	Fire Investigation I	2	19
FST 205 02	Fire Investigation I	2	10
FST 229 01	CERT-Community Emergency Response Team	.5	31
FST 236 01	Fire Prevention 2C	2	7
FST 290 01	ST: fire Operations in the Wildland	1	10
SPRING 2008-2009			
Course Code	Course Title	Credit	Enrollment
FST 080 01	Basic Firefighter Skills	.50	7
FST 080 02	Basic Firefighter Skills	.50	53
FST 080 03	Basic Firefighter Skills	.50	20
FST 080 04	Basic Firefighter Skills	.50	65
FST 080 05	Basic Firefighter Skills	.50	65
FST 080 06	Basic Firefighter Skills	.50	61
FST 080 07	Basic Firefighter Skills	.50	37
FST 080 08	Basic Firefighter Skills	.50	33
FST 080 09	Basic Firefighter Skills	.50	60
FST 080 A	Basic Firefighter Skills	.50	35
FST 080 B	Basic Firefighter Skills	.50	65
FST 080 C	Basic Firefighter Skills	.50	31
FST 080 D	Basic Firefighter Skills	.50	22
FST 109 01	Ethical Leadership in the Classroom	.5	29
FST 150 01	Haz Mat First Responder Operations	1	5
FST 152 01	Basic Chemistry, Module 1A Haz Mat Tech	2	24
FST 152 02	Basic Chemistry, Module 1A Haz Mat Tech	2	33
FST 152 03	Basic Chemistry, Module 1A Haz Mat Tech	2	23
FST 153 01	Applied Chemistry	2	33
FST 153 02	Applied Chemistry	2	24
FST 153 03	Applied Chemistry	2	34
FST 153 04	Applied Chemistry	2	24
FST 154 01	Incident Cons, Module 1C Haz Mat Tech	2	33
FST 154 02	Incident Cons, Module 1C Haz Mat Tech	2	22
FST 154 03	Incident Cons, Module 1C Haz Mat Tech	2	22
FST 154 04	Incident Cons, Module 1C Haz Mat Tech	2	33
FST 155 01	Tactical Field Operations	2	33
FST 155 02	Tactical Field Operations	2	22
FST 155 03	Tactical Field Operations	2	33
FST 155 04	Tactical Field Operations	2	21
FST 157 01	Special Mit Techniques Module 1F Haz Mat Spec.	2	27
FST 157 02	Special Mit Techniques Module 1F Haz Mat Spec.	2	14
FST 158 01	Adv.Field Ops. Module G Haz Mat Spec.	2	16
FST 158 02	Adv.Field Ops. Module G Haz Mat Spec.	2	27
FST 165 01	Confined Space Rescue Operations	1	36
FST 173 01	Rescue Systems I	1.5	15
FST 173 02	Rescue Systems I	1.5	9
FST 174 01	Rescue Systems II	2	20
FST 175 01	Low to High Angle Rope Rescue	1.5	6

FST 178 01	Instructor 1A, Instructional Techniques	2	25
FST 179 01	Instructional Technique, Instructor 1B Part 2	2	13
FST 179 02	Instructional Technique, Instructor 1B Part 2	2	13
FST 195 01	Fire Management 2B	1.5	11
FST 197 01	Command 2A, Command Tactics	2	14
FST 197 02	Command 2A, Command Tactics	2	19
FST 198 01	Fire Command 2B	1.5	15
FST 200 01	Fire Command I	2	22
FST 202 01	Fire Command M2E	2	14
FST 208 01	Fire Command 2D	2	10
FST 213 01	Fire Management 2E	2	14
FST 216 01	Instructor 2A Techniques of Evaluation	2	11
FST 229 01	CERT-Community Emergency Response Team	.75	25
FST 229 02	CERT-Community Emergency Response Team	.75	5
FST 229 03	CERT-Community Emergency Response Team	.75	7
FST 229 04	CERT-Community Emergency Response Team	1	30
FST 229 05	CERT-Community Emergency Response Team	.75	18
FST 229 06	CERT-Community Emergency Response Team	.75	31
FST 232 01	Fire Prevention 1B	2	20
FST 233 01	Fire Prevention 1C	2	22
FST 234 01	Fire Prevention 2A	2	12
FST 235 01	Fire Prevention 2B	2	15
FST 250 01	Haz Mat Tech/Specialist Refresher I	.25	24
FST 250 02	Haz Mat Tech/Specialist Refresher I	.25	19
FST 250 03	Haz Mat Tech/Specialist Refresher I	.25	14
FST 250 04	Haz Mat Tech/Specialist Refresher I	.25	13
FST 250 05	Haz Mat Tech/Specialist Refresher I	.25	12
FST 250 06	Haz Mat Tech/Specialist Refresher I	.25	9
FST 250 07	Haz Mat Tech/Specialist Refresher I	.25	8
FST 250 08	Haz Mat Tech/Specialist Refresher I	.25	8
FST 251 01	Haz Mat Tech/Specialist Refresher II	1	23
FST 290 01	ST: Emergencies in Tunnels Training	.25	21
FST 290 02	ST: Promotional Workshop Training	.5	19
FST 290 03	ST: S-230/231 Crew Boss and Engine Boss	1.5	13
FALL 2008-2009			
Course Code	Course Title	Credit	Enrollment
FST 080 01	Basic Firefighter Skills	.50	38
FST 080 02	Basic Firefighter Skills	.50	29
FST 080 03	Basic Firefighter Skills	.50	58
FST 080 04	Basic Firefighter Skills	.50	35
FST 080 05	Basic Firefighter Skills	.50	62
FST 080 06	Basic Firefighter Skills	.50	7
FST 080 07	Basic Firefighter Skills	.50	18
FST 080 08	Basic Firefighter Skills	.50	53
FST 080 09	Basic Firefighter Skills	.50	28
FST 080 A	Basic Firefighter Skills	.50	61
FST 080 B	Basic Firefighter Skills	.50	62
FST 080 C	Basic Firefighter Skills	.50	64
FST 080 D	Basic Firefighter Skills	.50	20
FST 109 01	Ethical Leadership in the Classroom	.5	26

FST 110 01	River and Flood Rescue Operations	1	22
FST 110 02	River and Flood Rescue Operations	1	35
FST 111 01	River and Flood Rescue Technician	.75	22
FST 111 02	River and Flood Rescue Technician	.75	35
FST 111 03	River and Flood Rescue Technician	.75	24
FST 111 04	River and Flood Rescue Technician	.75	19
FST 152 01	Basic Chemistry, Module 1A Haz Mat Tech	2	24
FST 152 02	Basic Chemistry, Module 1A Haz Mat Tech	2	33
FST 153 01	Applied Chemistry	2	24
FST 154 01	Incident Cons, Module 1C Haz Mat Tech	2	23
FST 155 01	Tactical Field Operations	2	23
FST 159 01	IS-200 Basic Incident command Systems	1	7
FST 159 02	IS-200 Basic Incident command Systems	1	10
FST 162 01	IS-300 Intermediate Incident Command	1.5	28
FST 163 01	IS-400 Advanced Incident Command Systems	1.25	32
FST 165 01	Confined Space Rescue Operations	1	28
FST 173 01	Rescue Systems I	1.5	14
FST 173 02	Rescue Systems I	1.5	41
FST 174 01	Rescue Systems II	2	13
FST 174 02	Rescue Systems II	2	11
FST 174 03	Rescue Systems II	2	39
FST 175 01	Low Angle Rope Rescue Operational	1.5	8
FST 199 01	Fire Command 2C	1.5	15
FST 200 01	Fire Command I	2	13
FST 200 02	Fire Command I	2	17
FST 201 01	Fire Command 1B	1.5	20
FST 201 02	Fire Command 1B	1.5	17
FST 202 01	Fire Command M2E	2	28
FST 203 01	Fire Command 2D	1.5	20
FST 204 01	Fire Command 1C	2	25
FST 204 02	Fire Command 1C	2	23
FST 205 01	Fire Investigation 1	2	14
FST 212 01	Fire Management 2D, Master Planning	2	11
FST 223 01	Hazardous Materials Incident Command	1.5	13
FST 229 01	CERT-Community Emergency Response Team	.5	30
FST 229 02	CERT-Community Emergency Response Team	1	11
FST 229 03	CERT-Community Emergency Response Team	1	19
FST 229 04	CERT-Community Emergency Response Team	.5	32
FST 229 05	CERT-Community Emergency Response Team	.5	26
FST 229 06	CERT-Community Emergency Response Team	.5	16
FST 229 07	CERT-Community Emergency Response Team	.75	11
FST 231 01	Fire Prevention 1A	2	19
FST 234 01	Fire Prevention 2A	2	23
FST 235 01	Fire Prevention 2B	2	17
FST 237 01	Fire Prevention 3A	2	17
FST 238 01	Fire Prevention 3B	2	21
FST 250 01	Haz Mat Tech/Specialist Refresher I	.25	28
FST 250 02	Haz Mat Tech/Specialist Refresher I	.25	20
FST 250 03	Haz Mat Tech/Specialist Refresher I	.25	154
FST 290 01	ST: hazardous Materials Refresher	.5	18

FST 290 02	ST: hazardous Materials Refresher	.5	16
FST 290 03	ST: hazardous Materials Refresher	.5	16

SUMMER 2009-2010			
Course Code	Course Title	Credit	Enrollment
SPRING 2009-2010			
Course Code	Course Title	Credit	Enrollment
FST 080 02	Basic Firefighter Skills	.50	31
FST 080 03	Basic Firefighter Skills	.50	16
FST 080 04	Basic Firefighter Skills	.50	60
FST 080 05	Basic Firefighter Skills	.50	57
FST 080 06	Basic Firefighter Skills	.50	34
FST 080 07	Basic Firefighter Skills	.50	62
FST 080 08	Basic Firefighter Skills	.50	32
FST 080 09	Basic Firefighter Skills	.50	32
FST 080 10	Basic Firefighter Skills	.50	56
FST 080 11	Basic Firefighter Skills	.50	87
FST 080 12	Basic Firefighter Skills	.50	75
FST 150 01	Haz Mat First Responder Operations	1	12
FST 150 02	Haz Mat First Responder Operations	1	16
FST 150 03	Haz Mat First Responder Operations	1	22
FST 152 01	Basic Chemistry, Module 1A Haz Mat Tech	2	13
FST 152 02	Basic Chemistry, Module 1A Haz Mat Tech	2	32
FST 152 03	Basic Chemistry, Module 1A Haz Mat Tech	2	18
FST 152 04	Basic Chemistry, Module 1A Haz Mat Tech	2	31
FST 153 01	Applied Chemistry	2	25
FST 153 02	Applied Chemistry	2	15
FST 153 03	Applied Chemistry	2	17
FST 153 04	Applied Chemistry	2	30
FST 154 02	Incident Cons, Module 1C Haz Mat Tech	2	16
FST 154 03	Incident Cons, Module 1C Haz Mat Tech	2	28
FST 154 04	Incident Cons, Module 1C Haz Mat Tech	2	25
FST 154 05	Incident Cons, Module 1C Haz Mat Tech	2	14
FST 154 06	Incident Cons, Module 1C Haz Mat Tech	2	14
FST 154 07	Incident Cons, Module 1C Haz Mat Tech	2	27
FST 155 01	Tactical Field Operations	2	28
FST 155 03	Tactical Field Operations	2	18
FST 155 04	Tactical Field Operations	2	25
FST 155 05	Tactical Field Operations	2	30
FST 155 06	Tactical Field Operations	2	30
FST 155 07	Tactical Field Operations	2	27
FST 157 01	Special Mit Techniques Module 1F Haz Mat Spec.	2	23
FST 157 02	Special Mit Techniques Module 1F Haz Mat Spec.	2	22
FST 157 03	Special Mit Techniques Module 1F Haz Mat Spec.	2	31
FST 157 04	Special Mit Techniques Module 1F Haz Mat Spec.	2	17
FST 157 05	Special Mit Techniques Module 1F Haz Mat Spec.	2	11

FST 158 01	Adv.Field Ops. Module G Haz Mat Spec.	2	26
FST 158 02	Adv.Field Ops. Module G Haz Mat Spec.	2	22
FST 158 03	Adv.Field Ops. Module G Haz Mat Spec.	2	31
FST 158 04	Adv.Field Ops. Module G Haz Mat Spec.	2	17
FST 158 05	Adv.Field Ops. Module G Haz Mat Spec.	2	13
FST 162 01	I-300 Intern (ICS)	1.25	12
FST 165 01	Confined Space Rescue Operations	1	33
FST 173 01	Rescue Systems I	2	26
FST 174 01	Rescue Systems II	2	21
FST 175 01	Low to High Angle Rope Rescue	1.5	16
FST 178 01	Instructor 1A, Instructional Techniques	2	23
FST 178 02	Instructor 1A, Instructional Techniques	2	11
FST 179 01	Instructional Technique, Instructor 1B Part 2	2	12
FST 179 02	Instructional Technique, Instructor 1B Part 2	2	11
FST 186 01	Fire Management 2C	2	16
FST 195 01	Fire Management 2B	1.5	23
FST 197 01	Command 2A, Command Tactics	2	16
FST 198 01	Fire Command 2B	1.5	21
FST 199 01	Fire Command 2C	1.5	16
FST 200 01	Fire Command I	2	19
FST 201 01	Fire Command 1B	1.5	12
FST 204 01	Fire Command 1C	2	19
FST 208 01	Fire Command 2D	2	18
FST 212 01	Fire Management 2D	2	14
FST 213 01	Fire Management 2E	2	19
FST 229 01	CERT-Community Emergency Response Team	.75	66
FST 229 02	CERT-Community Emergency Response Team	.50	13
FST 229 03	CERT-Community Emergency Response Team	1	38
FST 229 04	CERT-Community Emergency Response Team	.75	21
FST 229 05	CERT-Community Emergency Response Team	1	25
FST 231 01	Fire Prevention 1A	2	16
FST 232 01	Fire Prevention 1B	2	24
FST 290 01	ST: River Flood and Rescue Awareness	.50	33
FST 290 02	ST: River Flood and Rescue Awareness	.50	24
FST 290 03	ST: River Flood and Rescue Awareness	.50	19
FST 290 06	ST: CERT	1	16
FST 290 07	ST: Haz Mat FRO Decon Training	.5	14
FST 290 08	ST: WMD + Scenarios	1.5	48
FST 290 09	ST: Haz Mat FRO Decon Training	.5	19
FST 290 10	ST: Haz Mat FRO Decon Training	.5	22
FALL 2009-2010			
Course Code	Course Title	Credit	Enrollment
FST 080 01	Basic Firefighter Skills	.50	20
FST 080 02	Basic Firefighter Skills	.50	39
FST 080 03	Basic Firefighter Skills	.50	32
FST 080 04	Basic Firefighter Skills	.50	7
FST 080 05	Basic Firefighter Skills	.50	37
FST 080 06	Basic Firefighter Skills	.50	56
FST 080 07	Basic Firefighter Skills	.50	52
FST 080 08	Basic Firefighter Skills	.50	20

FST 080 09	Basic Firefighter Skills	.50	63
FST 080 10	Basic Firefighter Skills	.50	58
FST 080 11	Basic Firefighter Skills	.50	60
FST 080 12	Basic Firefighter Skills	.50	20
FST 080 13	Basic Firefighter Skills	.50	31
FST 080 14	Basic Firefighter Skills	.50	61
FST 110 01	River and Flood Rescue Operations	1	25
FST 110 02	River and Flood Rescue Operations	1	35
FST 110 03	River and Flood Rescue Operations	1	28
FST 110 04	River and Flood Rescue Operations	1	16
FST 111 01	River and Flood Rescue Technician	.75	16
FST 111 02	River and Flood Rescue Technician	.75	23
FST 111 03	River and Flood Rescue Technician	.75	25
FST 111 04	River and Flood Rescue Technician	.75	35
FST 111 05	River and Flood Rescue Technician	.75	29
FST 111 06	River and Flood Rescue Technician	.75	32
FST 111 07	River and Flood Rescue Technician	.75	28
FST 115 01	Driver/Operator	2	4
FST 115 02	Driver/Operator	2	23
FST 116 01	Driver/Operator II	2	24
FST 150 01	Haz Mat First Responder Operations	1	12
FST 151 01	First Responder Awareness	.5	7
FST 152 01	Basic Chemistry, Module 1A Haz Mat Tech	2	25
FST 152 05	Basic Chemistry, Module 1A Haz Mat Tech	2	17
FST 152 06	Basic Chemistry, Module 1A Haz Mat Tech	2	25
FST 152 07	Basic Chemistry, Module 1A Haz Mat Tech	2	25
FST 153 01	Applied Chemistry	2	25
FST 153 05	Applied Chemistry	2	18
FST 153 06	Applied Chemistry	2	25
FST 154 01	Incident Cons, Module 1C Haz Mat Tech	2	30
FST 155 02	Tactical Field Operations	2	30
FST 157 02	Special Mit Techniques Module 1F Haz Mat Spec.	2	8
FST 157 04	Special Mit Techniques Module 1F Haz Mat Spec.	2	27
FST 158 02	Adv.Field Ops. Module G Haz Mat Spec.	2	8
FST 158 04	Adv.Field Ops. Module G Haz Mat Spec.	2	27
FST 173 01	Rescue Systems I	1.5	27
FST 173 03	Rescue Systems I	1.5	24
FST 173 04	Rescue Systems I	1.5	23
FST 174 01	Rescue Systems II	2	34
FST 174 02	Rescue Systems II	2	20
FST 174 03	Rescue Systems II	2	40
FST 175 01	Low Angle Rope Rescue Operational	1.5	16
FST 182 01	Management I	2	16
FST 186 01	Fire Management 2C	2	17
FST 194 01	Fire Management 2A	1.5	25
FST 195 01	Fire Management 2B	1.5	13
FST 197 01	Fire Command 2A	2	13
FST 198 01	Fire Command 2B	1.5	13
FST 199 01	Fire Command 2C	1.5	21
FST 202 01	Fire Command M2E	2	12

FST 205 01	Fire Investigation 1	2	18
FST 229 01	CERT-Community Emergency Response Team	.75	21
FST 229 02	CERT-Community Emergency Response Team	.75	7
FST 229 03	CERT-Community Emergency Response Team	.50	13
FST 229 04	CERT-Community Emergency Response Team	.50	5
FST 229 05	CERT-Community Emergency Response Team	1	32
FST 234 01	Fire Prevention 2A	2	8
FST 235 01	Fire Prevention 2B	2	8
FST 236 01	Fire Prevention 2B	2	12
FST 237 01	Fire Prevention 3A	2	7
FST 238 01	Fire Prevention 3B	2	15
FST 250 01	Haz Mat Tech/Specialist Refresher I	.25	4
FST 250 02	Haz Mat Tech/Specialist Refresher I	.25	7
FST 250 03	Haz Mat Tech/Specialist Refresher I	.25	5
FST 250 04	Haz Mat Tech/Specialist Refresher I	.25	67
FST 250 05	Haz Mat Tech/Specialist Refresher I	.25	45
FST 250 06	Haz Mat Tech/Specialist Refresher I	.25	32
FST 250 07	Haz Mat Tech/Specialist Refresher I	.25	31
FST 250 08	Haz Mat Tech/Specialist Refresher I	.25	29
FST 290 01	ST: Haz Mat FRO Decon Training	.5	21
FST 290 02	ST: Haz Mat FRO Decon Training	.5	14
FST 290 03	ST: Haz Mat FRO Decon Training	.5	8
FST 290 04	ST: Haz Mat FRO Decon Training	.5	26
FST 290 05	ST: Haz Mat FRO Decon Training	.5	23
FST 290 07	ICS 300/400	2	22
FST 290 08	ICS 300/400	2	33
FST 290 09	ICS 300/400	2	27
FST 290 10	S-404 Safety Officer Training	1	15
FST 290 11	ST: hazardous Materials Refresher	.5	20
FST 290 12	ST: hazardous Materials Refresher	.5	16
FST 290 13	ST: hazardous Materials Refresher	.5	10

2008-2009	Salaries	Benefits	Supplies	Contracts	Capital	Total	FTEs
FST	\$ 40,345.21	\$ 3,962.09	\$ 311.25	\$ 978,007.28	\$ -	\$ 1,022,625.83	426 \$1,959,600
2009-2010	Salaries	Benefits	Supplies	Contracts	Capital	Total	FTEs
FST	\$ 57,172.06	\$ 6,240.36	\$ 439.50	\$ 710,377.80	\$ -	\$ 774,229.72	335 \$1,541,000

PART 6: TWO-YEAR PLAN

Fire Science faculty and staff will work towards the following goals:

- Continue to update curriculum as needed
- Work with other districts to allow PVC to offer courses in their areas
- Work towards and assist with the distance learning matriculation process to increase program completers.
- Continue implementing online registration and enrollment to better streamline operations.