

Fire Science

Program Mission:

The mission of the Fire Science Program at Jefferson State Community College is to prepare fire service personnel to operate in a safe and effective manner utilizing the latest accepted strategies and tactics. The Fire Science Program will develop students to assume leadership roles in emergency services advancing the philosophy that experience and education allows a firefighter to most effectively provide life and property saving public service.

Program Outcomes:

- Graduation rate will be greater than viability requirement.
- Employers will report at least a 75% satisfaction with educational preparation.
- Graduates will report at least a 75% satisfaction with educational preparation.

Program Level Student Learning Outcomes:

1. Demonstrate knowledge of fire behavior.
2. Demonstrate an understanding of fire suppression concepts and principles.
3. Demonstrate knowledge of modern tactics and strategies used in effective emergency response.
4. Understand and apply legal concepts to fire service scenarios.
5. Develop leadership and mentoring abilities needed to effectively manage personnel in the modern fire service.
6. Demonstrate basic instructional skills required by fire service officers.
7. Apply safety concepts and safe management strategies to emergency operations.

Program Mapping:

I: Introduced in this course

P: Practiced in this course

M: Mastered in this course

| Courses | PSLSO 1 | PLSLO 2 | PLSLO 3 | PLSLO 4 | PLSLO 5 | PLSLO 6 | PLSLO 7 |
|---------|---------|---------|---------|---------|---------|---------|---------|
| FSC 101 | I, P, M | I, P, M | | | | | I, P |
| FSC 110 | I, P | I, P | | | | | I, P |
| FSC 131 | I, P, M | I, P, M | | | | | I, P |
| FSC 160 | I, P | I, P | I, P | | | | I, P |
| FSC 161 | I, P | I, P | I, P, M | | I | | I, P |
| FSC 201 | I | I | I | I, P | I, P | I, P | I, P |
| FSC 202 | I | I | I | I, P | I, P | I, P | I, P |
| FSC 203 | I | I | I | I, P | I, P, M | I, P, M | I, P |
| FSC 208 | I, P, M | I, P | I, P, M | I, P | I, P | | I, P |
| FSC 220 | | | I, P | I, P | I, P | | I, P |
| FSC 230 | | | I, P, M | I | | | I, P |
| FSC 231 | | | I, P, M | I | | | I, P |
| FSC 232 | | | I, P, M | I | | | I, P |
| FSC 233 | | | I, P, M | I | | | I, P |
| FSC 237 | | | I, P, M | I | | | I, P |
| FSC 241 | I, P | I, P | | I, P | | | I, P |
| FSC 242 | I, P | I, P | | I, P | | | I, P |
| FSC 251 | I, P | I, P | | I, P | | | I, P |
| FSC 252 | I, P | I, P | | I, P | | | I, P |
| FSC 253 | I, P, M | I, P | | I, P | | | I, P |

| Courses | PSLSO 1 | PLSLO 2 | PLSLO 3 | PLSLO 4 | PLSLO 5 | PLSLO 6 | PLSLO 7 |
|---------|---------|---------|---------|---------|---------|---------|---------|
| FSC 254 | I, P | I, P | I, P | I, P | | | I, P |
| FSC 255 | I, P | I | | I, P | I, P | I, P, M | I, P |
| FSC 261 | I, P | I, P | I, P, M | I, P | | | I, P |
| FSC 270 | I, P, M | I, P, M | I, P | I, P | | | I, P |
| FSC 280 | I | I, P | I, P, M | I, P | | | I, P |
| FSC 291 | I, P | I, P, M | I, P, M | I, P | I, P | I, P | I, P |
| FSC 292 | I, P | I, P, M | I, P, M | I, P | I, P | I, P | I, P |
| FSC 293 | I, P | I, P, M | I, P, M | I, P | I, P | I, P | I, P |
| FSC 294 | I, P | I, P, M | I, P, M | I, P | I, P, M | I, P | I, P |
| FSC 295 | I, P | I, P | I, P, M | I, P | I, P, M | I, P | I, P |
| FSC 299 | | | | I, P, M | | | I, P, M |