Outcome Assessment Timeline

Academic Programs

**Fire Science**

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| **APR /SLO 3-Year Cycle** | **2021-2024** |
| **Course ID** | **Course-Level Student Learning Outcome (CSLO)** | **Measure/Collect Data** | **Discuss & Plan** |
| FS10 - PROFESSIONAL SKILLS FOR EMPLOYMENT IN THE FIRE SERVICE | Rapidly analyze and formulate response to questions from others. (FS10:ISLO4) | Spring 2022 | Fall 2021 |
| Students will demonstrate the ability to communicate with a diverse group of people within the fire service and the community. (FS10;ISLO11) | Spring 2022 | Fall 2021 |
| FS101 - FIRE PROTECTION ORGANIZATION | Students will be able to clearly identify jobs within the fire service. (FS101) | Spring 2022 | Fall 2021 |
| Students will be able to compare and contrast medical calls in the fire service organization. (FS101;ISLO4) | Spring 2022 | Fall 2021 |
| Students will be able to clearly identify why the fire service responds to medical calls. (FS101) | Spring 2022 | Fall 2021 |
| Students will be able to clearly identify why the firefighter needs to be physically fit. (FS101) | Spring 2022 | Fall 2021 |
| Students will be able to compare and contrast fire extinguishers used in the fire service. (FS101) | Spring 2022 | Fall 2021 |
| FS102 - FIRE BEHAVIOR AND COMBUSTION | Given scientific information, student will be able to demonstrate knowledge and assess fire behavior. (FS102;ISLO4) | Spring 2022 | Fall 2021 |
| Given data, student will be able to analyze information and identify potential hazards involved with fire suppression. (FS202;ISLO5) | Spring 2022 | Fall 2021 |
| FS103 - FIRE PREVENTION TECHNOLOGY | Student presentation will state clearly and concise Fire Prevention Topic. Demonstrate competence and importance of fire prevention pertaining to public occupancies and the business community. (FS103;ISLO2) | Fall 2021 | Spring 2020Fall 2023 |
| Student will assemble and analyze facts concerning fire prevention. Develop accurate Pre-Fire Plan; discuss its relationship between public and business occupancies. How Pre-Fire Plans aide first responders in fire prevention. (FS103;ISLO5) | Fall 2021 | Spring 2020Fall 2023 |
| FS104 - FIRE PROTECTION EQUIPMENT AND SYSTEMS | Students will be able to clearly articulate concepts in fire protection equipment and systems within the various levels of government. (FS104;ISLO4) | Fall 2021 | Spring 2020Fall 2023 |
| Given information and fire code requirements, student will be able to analyze and determine appropriate fire equipment for various building applications. (FS104;ISLO5) | Spring 2022 | Fall 2021 |
| Student demonstrate a comprehensive knowledge of the different levels of government involvement in fire protection equipment and system requirements. (FS104;ISLO7) | Spring 2022 | Fall 2021 |
| FS106 - BUILDING CONSTRUCTION FOR FIRE PROTECTION | Students will be able to clearly articulate details of various types of construction (FS106;ISLO2) | Spring 2022 | Fall 2021 |
| Students will be able to clearly articulate details of various types of construction (FS106;ISLO2) | Spring 2022 | Fall 2021 |
| Given data, students will analyze information about the history of building construction and reasons for change to modern criteria. (FS106;ISLO11) | Spring 2022 | Fall 2021 |
| FS108 - FIRE FIGHTER SAFETY AND SURVIVAL | Student will list and explain common hostile fire events and their associated warning signs. (FS108;ISLO4) | Spring 2022 | Fall 2021 |
| Student will list the three factors that lead to overexertion, the three ergonomic factors that can produce injury, and the three strategies to mitigate ergonomic hazards. (FS108;ISLO7) | Spring 2022 | Fall 2021 |
| Student will list the significant players and give examples of their roles in developing guiding publications, including NFPA and OSHA. (FS108;ISLO8) | Spring 2022 | Fall 2021 |
| Student will describe the emergence of the safety officer role in fire departments. (FS108;ISLO1) | Spring 2022 | Fall 2021 |
| FS110 - HAZARDOUS MATERIALS | Students will be able to clearly articulate the various concepts of hazardous materials and their impact on the environment. (FS110;ISLO2) | Spring 2022 | Spring 2020Fall 2023 |
| Given scientific data, student will be able to analyze and identify various hazardous material incidents and determine an appropriate course of action to mitigage the problem. (FS110;ISLO6) | Fall 2021 | Spring 2020Fall 2023 |
| Given Department of Transportation data, student will be able to develop a plan for rapid recognition of hazardous materials being transported on United States roadways. (FS110;ISLO7) | Fall 2021 | Spring 2020Fall 2023 |
| FS12 - FIRE SERVICE HYDRAULICS | Student will interpret and analyze information and present it in clear and appropriate manner. (FS12;ISLO2) | Spring 2022 | Fall 2021 |
| Student will formulate and present ideas clearly, actively listen to other and analyze their ideas, and make decisions based on this information. (FS12;ISLO4) | Spring 2022 | Fall 2021 |
| Student will demonstrate ability to work as part of a team. (FS12;ISLO9) | Spring 2022 | Fall 2021 |
| FS144 - BASIC WILDLAND FIREFIGHTING ACADEMY | Student will participate as a team member in hose deployment. (FS144) | Spring 2022 | Fall 2021 |
| Students will demonstrate the ability to communicate using a fire service portable radio. (FS144) | Spring 2022 | Fall 2021 |
| Students will be able to clearly identify hand tools used in the fire service. (FS144) | Spring 2022 | Fall 2021 |
| Students will be able to demonstrate how to use appropriate PPE for wildland firefighting. (FS144) | Spring 2022 | Fall 2021 |
| Students will be able to demonstrate how to properly use a fire shelter. (FS144) | Spring 2022 | Fall 2021 |
| FS146 - ADVANCED WILDLAND FIREFIGHTING ACADEMY | Student will participate in the collection of data as they investigate fire incident and form a course of action to mitigate the problem. (FS146;ISLO5) | Fall 2021 | Spring 2020Fall 2023 |
| Students will demonstrate the ability to communicate with a diverse group of employees within the fire service. (FS146;ISLO9) | Fall 2021 | Spring 2020Fall 2023 |
| FS20 - FIRE APPARATUS AND EQUIPMENT | Students will interpret and analyze information and present it in clear and appropriate manner | Fall 2021 | Spring 2020Fall 2023 |
| Student will formulate and present ideas clearly, actively listen to others and analyze their ideas, and make decisions based on this information | Fall 2021 | Spring 2020Fall 2023 |
| FS201 - WILDLAND FIRE BEHAVIOR | Student will analyze fire behavior patterns from actual incidents. (FS201;ISLO5) | Fall 2021 | Spring 2020Fall 2023 |
| Student will assess various types of fire behavior utilizing rate of spread, topography, and weather influence by writing a research paper. (FS201;ISLO8) | Fall 2021 | Spring 2020Fall 2023 |
| Student will demonstrate knowledge and written ability by completion of an examination. (FS201; ISLO3) | Fall 2021 | Spring 2020Fall 2023 |
| Student will demonstrate their ability to interact effectively as an individual or within a group. (FS201;ISLO9) | Fall 2021 | Spring 2020Fall 2023 |
| Student will interact in small groups identifying fuels, weather, and topography and their influences on wildland fire behavior. (FS201;ISLO4) | Fall 2021 | Spring 2020Fall 2023 |
| FS290 - FIRE SCIENCE COOPERATIVE WORK EXPERIENCE I | Student will upon completion of 60 hours of on-the-job work experience (75 hours if paid), evaluate the appropriateness of his/her career choice and relate the positive and negative aspects of this career field. | Fall 2021 | Spring 2020Fall 2023 |
| Student will evaluate and prepare a log of on-the-job activities that relate to his/her short and long range career objectives. | Fall 2021 | Spring 2020Fall 2023 |
| FS291 - FIRE SCIENCE COOPERATIVE WORK EXPERIENCE II | Student will upon completion of 60 hours of on-the-job work experience (75 hours if paid), evaluate the appropriateness of his/her career choice and relate the positive and negative aspects of this career field. | Fall 2021 | Spring 2020Fall 2023 |
| Student will evaluate and prepare a log of on-the-job activities that relate to his/her short and long range career objectives. | Fall 2021 | Spring 2020Fall 2023 |
| FS292 - FIRE SCIENCE COOPERATIVE WORK EXPERIENCE III | Student will upon completion of 60 hours of on-the-job work experience (75 hours if paid), evaluate the appropriateness of his/her career choice and relate the positive and negative aspects of this career field. | Fall 2021 | Spring 2020Fall 2023 |
| Student will evaluate and prepare a log of on-the-job activities that relate to his/her short and long range career objectives. | Fall 2021 | Spring 2020Fall 2023 |
| FS293 - FIRE SCIENCE COOPERATIVE WORK EXPERIENCE IV | Student will upon completion of 60 hours of on-the-job work experience (75 hours if paid), evaluate the appropriateness of his/her career choice and relate the positive and negative aspects of this career field. | Fall 2021 | Spring 2020Fall 2023 |
| Student will evaluate and prepare a log of on-the-job activities that relate to his/her short and long range career objectives. | Fall 2021 | Spring 2020Fall 2023 |
| FS30 - EMERGENCY SERVICES PHYSICAL FITNESS AND NUTRITION | Students will show a 10% improvement on their physical agility test from the beginning of the semester until the end. | Fall 2021 | Spring 2020Fall 2023 |
| Students will take a pre and post PT test. The student will show at least a 10% decrease in the finishing post test time. | Fall 2021 | Spring 2020Fall 2023 |
| Students work collegially with peers. | Fall 2021 | Spring 2020Fall 2023 |
| FS32 - PRE-ACADEMY FIRE POLICE AND EMS FITNESS AND NUTRITION | Students will show a 10% improvement on their physical agility test from the beginning of the semester until the end. | Spring 2022 | Fall 2021 |
| Students will take a pre and post PT test. The student will show at least a 10% decrease in the finishing post test time. | Spring 2022 | Fall 2021 |
| Students work collegially with peers. | Spring 2022 | Fall 2021 |
| FS33 - FIREFIGHTING BASIC SKILLS AND TECHNIQUES | Communicate and perform firefighter safety for manipulative fire ground activities. | Fall 2021 | Spring 2020Fall 2023 |
| Demonstrate how to properly carry, raise and lower a 14-foot aluminum ladder. | Fall 2021 | Spring 2020Fall 2023 |
| Demonstrate how to properly maneuver and operate a hose line. | Fall 2021 | Spring 2020Fall 2023 |
| Demonstrate how to put on and operate the SCBA (Self-Contained Breathing Apparatus) at a level of proficiency within the given fire service operating standard.  | Fall 2021 | Spring 2020Fall 2023 |
| FS40 - FIRE SERVICE SKILLS | Student will formulate and share ideas, analyze the ideas of others and integrate them to solve problems (FS40;ISLO2) | Spring 2022 | Fall 2021 |
| Demonstrate the ability to perform basic firefighting manipulative tasks using fire suppression apparatus and equipment. (FS40:ISLO5) | Spring 2022 | Fall 2021 |
| Student will demonstrate ability to work as part of a team. (FS40:ISLO9) | Spring 2022 | Fall 2021 |
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| **Program****2021 -2025** | **Program-Level Student Learning Outcome (PSLO)** | **Measure/Collect Data** | **Discuss & Plan** |
| 02845Associate of Science in Fire Technology | Provides training in the theory and practice of fire technology, the fire service, and the fire protection field. It is designed to enhance qualifications for entry into the fire service, for preparation for entry-level hiring examinations, and for current firefighters wishing to complete a degree in fire technology. | Spring 2020Fall 2023 | Fall 2020Fall 2023 |
| 02846Certificate of Completion in Fire Science Technology | Provides training in the theory and practice of fire technology, the fire service, and the fire protection field. It is designed to enhance qualifications for entry into the fire service, for preparation for entry-level hiring examinations, and for current firefighters wishing to complete a certificate in fire technology. | Spring 2020Fall 2023 | Fall 2020Fall 2023 |

**Directions & Helpful Hints**

In the spaces provided on the timeline, please list course-level and program-level student learning outcomes and when each will be assessed.

 **APR/SLO 3-Year Cycle**: The APR/SLO cycle begins with a compressive program review and ends just before the next comprehensive is due.

 **Course ID:** Insert course designator (e.g., ENGL 114, MATH 60, COMM 103)

 **Course-Level Student Learning Outcome (CSLO):** Write in each CSLO listed on the course outline of record. This can be accessed in CurricUNET.

 **Measure:** Insert the semester(s) each CSLO will be measured, and entered into eLumen.

 **Discuss & Plan:** State the semester the faculty will meet to discuss assessment results and create action plans as needed.

 **Program:** State the program being assessed.

 **Program-Level Student Learning Outcome (PSLO):** State the PSLO(s) for each program listed.

Considerations for Completing the SLO Assessment Timeline:

As per the SCEA contract, “The timeline shall ensure that all SLOs in all sections for each course are to be assessed at least once during the 3-year cycle, with a maximum number of course SLOs per section collected by a Unit member at any one time being three (3)”.

According to the ACCJC Standard II.A.3, “The institution identifies and regularly assesses learning outcomes for courses, programs, certificates. And degrees using established institutional procedures.”