Outcome Assessment Timeline

Academic Programs

Astronomy

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| **APR /SLO 3-Year Cycle** | **2021 - 2024** |
| **Course ID** | **Course-Level Student Learning Outcome (CSLO)** | **Measure/Collect Data** | **Discuss & Plan** |
| ASTR100 - PRINCIPLES OF ASTRONOMY | Students will collect and assemble physical principles and methods of analysis and subsequently be able to defend their assessments and evaluations of the universe around them. (ASTR100;ISLO5) | FA 21 | SP 22 |
| Students will effectively communicate their ideas with others by assessing and contrasting physical principles and methods of analysis. (ASTR100;ISLO4) | FA 21 | SP 22 |
| ASTR109 - ASTRONOMY LABORATORY | Students will effectively communicate their ideas with others by suggesting, assessing, and contrasting different approaches to the exercises. (ASTR109;ISLO4) | FA 21 | SP 22 |
| Students will analyze data to investigate the laws of the universe and develop conclusions in agreement with predictions from such laws. (ASTR 109;ISLO5) | FA 21 | SP 22 |
| ASTR120 - SOLAR SYSTEM ASTRONOMY | Students will effectively communicate their ideas with others by assessing and contrasting physical principles and methods of analysis. (ASTR120; ISLO4) | FA 22 | SP 23 |
| Students will collect and assemble physical principles and methods of analysis and subsequently be able to defend their assessments and evaluations of the universe around them. (ASTR120;ISLO5) | FA 22 | SP 23 |
| ASTR150 - DISCOVERY OF THE COSMOS | Students will collect and assemble physical principles and methods of analysis and subsequently be able to defend their assessments and evaluations of the universe around them. (ASTR150;ISLO5) | SP22 | SP23 |
| Students will effectively communicate their ideas with others by assessing and contrasting physical principles and methods of analysis. (ASTR150;ISLO4) | SP21 | SP22 |
| ASTR170 - THE RADICAL UNIVERSE | Students will effectively communicate their ideas with others by assessing and contrasting physical principles and methods of analysis. (ASTR170; ISLO4) | SP21 | SP22 |
| Students will collect and assemble physical principles and methods of analysis and subsequently be able to defend their assessments and evaluations of the universe around them. (ASTR170; ISLO5) | SP20 | SP21 |
| ASTR180 - LIFE IN THE UNIVERSE | Students will collect and assemble physical principles and methods of analysis and subsequently be able to defend their assessments and evaluations of the universe around them. (ASTR180;ISLO5) | SP21 | SP22 |
| Students will effectively communicate their ideas with others by assessing and contrasting physical principles and methods of analysis. (ASTR180; ISLO4) | SP22 | SP23 |
| ASTR205 - ELEMENTARY ASTROPHYSICS | Students will analyze observations from different astrophysical situations and recognize underlying laws of physics that govern wide-ranging phenomena seen across the universe. (ASTR205;ISLO5) | FA23 | SP23 |
| Students will formulate and analyze astrophysics problems mathematically by translating words into equations as well as find quantitative solutions to such problems. (ASTR205;ISLO6) | FA23 | SP23 |
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| **Program** | **Program-Level Student Learning Outcome (PSLO)** | **Measure/Collect Data** | **Discuss & Plan** |
| Astronomy, Associate in Science, 01500 | Develop mathematical skills, acquire physics knowledge, and practice applying these skills and knowledge in astrophysical situations. | FA23 | SP24 |

 **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.”