Course SLOs aligned with Program SLOs

San Mateo CCCD

CAN Institutional SLOs

Select, evaluate, and use information to investigate a point of view, support a conclusion, or engage in problem solving.

CAN Dept - Astronomy

CAN ASTR 101   - Astronomy Laboratory

Course Outcomes:

* Data - Students will be able to accurately collect and analyze scientific data (Created By CAN Dept - Astronomy)

* Solar System - Students will demonstrate an understanding of the size and scale of the solar system (Created By CAN Dept - Astronomy)

* Temperature and Spectra - Students will be able to identify changes in source temperature based on spectral shifts (Created By CAN Dept - Astronomy)

Produce, combine, or synthesize ideas in creative ways within or across disciplines.

No Course Outcomes related to this ISLO.

Use language to effectively convey an idea or a set of facts, including the accurate use of source material and evidence according to institutional and discipline standards.

CAN Dept - Astronomy

CAN ASTR 101   - Astronomy Laboratory

Course Outcomes:

* Communication and Reporting - Demonstrate scientific communication skills through clear, well-organized laboratory and project reports, as well as oral presentations (Created By CAN Dept - Astronomy)

Understand and interpret various points of view that emerge from a diverse world of peoples and cultures.

No Course Outcomes related to this ISLO.

Represent complex data in various mathematical forms (e.g., equations, graphs, diagrams, tables, and words) and analyze these data to draw appropriate conclusions.

CAN Dept - Astronomy

CAN ASTR 100   - Introduction To Astronomy

Course Outcomes:

* Data Collection and Reporting - Demonstrate their astronomical skills and use of measurement tools through systematic collection, analysis, and reporting of data of solar elevation angle and length of daylight in a semester long project regarding the cause of the seasons (Created By CAN Dept - Astronomy)

* Observational Evidence - Demonstrate their understanding of the scientific process by describing how astronomical observations are used to support scientific theories (Created By CAN Dept - Astronomy)

* Planetary Characteristics - Identify and describe the formation and characteristics of the planets, the properties and evolution of stars, and the structure of the Milky Way galaxy (Created By CAN Dept - Astronomy)

* Stars - Students will be able to correctly identify different classes of stars based their position in an HR diagram and accurately describe the appropriate life-cycle stage of each type of star. (Created By CAN Dept - Astronomy)

CAN ASTR 101   - Astronomy Laboratory

Course Outcomes:

* Data - Students will be able to accurately collect and analyze scientific data (Created By CAN Dept - Astronomy)

* Models of astronomical concepts - Construct and analyze models, simulations, and other representations of astronomical concepts (Created By CAN Dept - Astronomy)

* Solar System - Students will demonstrate an understanding of the size and scale of the solar system (Created By CAN Dept - Astronomy)

* Temperature and Spectra - Students will be able to identify changes in source temperature based on spectral shifts (Created By CAN Dept - Astronomy)