

Course SLOs aligned with Program SLOs

San Mateo CCCD

CAN Program - Physical Sciences

Use the scientific method and appreciate its importance to the development of scientific thought.

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

Document and communicate their work effectively.

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)

Demonstrate critical thinking to analyze physical systems in terms of scientific concepts.

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)
- * 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)
- * 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)