

# Astronomy SLO to ILO Alignment(No Results)\_February 2017

## CAN Institutional SLOs

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

### CAN Dept - Astronomy

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#### CAN ASTR 100 : Introduction To Astronomy

**Skills and Communication:** Demonstrate their astronomical and scientific communication skills through the collection, analysis, or reporting of data

#### CAN ASTR 100 : Introduction To Astronomy

**Characteristics of astronomical objects:** Identify and describe the formation and characteristics of the planets, the properties and evolution of stars, and the structure of the Milky Way galaxy

#### CAN ASTR 100 : Introduction To Astronomy

**Observational Evidence:** Demonstrate their understanding of the scientific process by describing how astronomical observations are used to support scientific theories

#### CAN ASTR 101 : Astronomy Laboratory

**Solar System:** Students will demonstrate an understanding of the size and scale of the solar system

#### CAN ASTR 101 : Astronomy Laboratory

**Data:** Students will be able to accurately collect and analyze scientific data

#### CAN ASTR 101 : Astronomy Laboratory

**Temperature and Spectra:** Students will be able to identify changes in source temperature based on spectral shifts

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

## CAN Dept - Astronomy

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### CAN ASTR 100 : Introduction To Astronomy

**Skills and Communication:** Demonstrate their astronomical and scientific communication skills through the collection, analysis, or reporting of data

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

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### CAN ASTR 100 : Introduction To Astronomy

**Skills and Communication:** Demonstrate their astronomical and scientific communication skills through the collection, analysis, or reporting of data

### CAN ASTR 101 : Astronomy Laboratory

**Communication and Reporting:** Demonstrate scientific communication skills through clear, well-organized laboratory and project reports, as well as oral presentations

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

**There are no Results for this SLO**

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

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### CAN ASTR 100 : Introduction To 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.

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**Observational Evidence:** Demonstrate their understanding of the scientific process by describing how astronomical observations are used to support scientific theories

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**Solar System:** Students will demonstrate an understanding of the size and scale of the solar system

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**Temperature and Spectra:** Students will be able to identify changes in source temperature based on spectral shifts

### CAN ASTR 101 : Astronomy Laboratory

**Models of astronomical concepts:** Construct and analyze models, simulations, and other representations of astronomical concepts

### CAN ASTR 101 : Astronomy Laboratory

**Telescopes, spectroscopy and photometry:** Demonstrate their understanding of the nature of light and of telescopes through laboratory exercises and reports

### CAN ASTR 101 : Astronomy Laboratory

**Communication and Reporting:** Demonstrate scientific communication skills through clear, well-organized laboratory and project reports, as well as oral presentations