

# Astronomy

## Overview

---

The Folsom Lake College astronomy program offers an array of transferable courses that fulfill both major and general education requirements. The astronomy courses are offered as part of the general education program at FLC and consists of the ASTR 300 lecture class and the ASTR 400 lab class. These classes are meant to give the student a comprehensive breath of the field of astronomy and the laboratory class gives a hands-on learning experience. Both courses are an excellent way for liberal arts students to gain an appreciation of scientific knowledge and methods.

## Program Maps

[Science, Technology, Engineering, and Mathematics Undecided Major \(/flc/main/doc/instruction/program-maps/STEM-Undecided-major.pdf\)](#)

Dean	<a href="#">Greg McCormac (/about-us/contact-us/faculty-and-staff-directory/greg-mccormac)</a>
Department Chair	<a href="#">Daniel Hale (/about-us/contact-us/faculty-and-staff-directory/daniel-hale)</a>
Meta-Major	<a href="#">Science, Technology, Engineering, and Mathematics (/academics/meta-majors/science-technology-engineering-and-mathematics)</a>
Phone	(916) 608-6615
Email	<a href="mailto:mccormg@flc.losrios.edu">mccormg@flc.losrios.edu (mailto:mccormg@flc.losrios.edu)</a>

## Astronomy (ASTR) Courses

---

### ASTR 300 Introduction to Astronomy

Units:	3
Hours:	54 hours LEC
Prerequisite:	None.
Advisory:	ENGWR 300 and MATH 100
Transferable:	CSU; UC
General Education:	AA/AS Area IV; CSU Area B1; IGETC Area 5A
Catalog Date:	June 1, 2020

This is a general course in astronomy that examines the nature and evolution of the solar system, stars, galaxies, cosmology and life in the universe.

### Student Learning Outcomes

Upon completion of this course, the student will be able to:

- recall important words and definitions used in astronomy.
- investigate conceptual and simple quantitative problems requiring the application of basic physics and astronomy.
- explain astronomical evolutionary processes within the universe.
- explain the major similarities and differences between the planets and other objects within the solar system.
- explain the daily and yearly motions of the night sky and of the Sun, Moon and planets.

### ASTR 400 Astronomy Laboratory

Units:	1
Hours:	54 hours LAB
Prerequisite:	None.
Corequisite:	ASTR 300 (may be taken previously)
Advisory:	ASTR 300 and MATH 100 with grades of "C" or better
Transferable:	CSU; UC
General Education:	CSU Area B3; IGETC Area 5C
Catalog Date:	June 1, 2020

This course introduces students to various types of astronomical observations and presents the tools needed to analyze and interpret astronomical data. The course will cover historical and current observational methods. This will include naked eye and telescopic observations.

### Student Learning Outcomes

Upon completion of this course, the student will be able to:

- recognize and classify common celestial objects.
- use common astronomical methods and tools.

- analyze astronomical data to infer properties of celestial bodies.
- set-up a telescope and use it to obtain drawings/pictures of astronomical objects.

## ASTR 495 Independent Studies in Astronomy

Units: 1 - 3  
 Hours: 54 - 162 hours LAB  
 Prerequisite: None.  
 Transferable: CSU  
 Catalog Date: June 1, 2020

## ASTR 499 Experimental Offering in Astronomy

Units: 0.5 - 4  
 Prerequisite: None.  
 Transferable: CSU  
 Catalog Date: June 1, 2020

## Faculty

---

### Daniel Hale

Professor

Office: FLC Main, Dogwood Hall, FL4-227  
 Email: [haled@flc.losrios.edu](mailto:haled@flc.losrios.edu) (<mailto:haled@flc.losrios.edu>)  
 Phone: (916) 608-6786  
 Web: [Daniel Hale's Profile Page \(/about-us/contact-us/faculty-and-staff-directory/daniel-hale\)](#)

### Nancy Montague-Archer

Adjunct Faculty

Office: ARC Main  
 Email: [montagn@arc.losrios.edu](mailto:montagn@arc.losrios.edu) (<mailto:montagn@arc.losrios.edu>)  
 Phone: (916) 286-3691 ext. 12045  
 Web: [Nancy Montague-Archer's Profile Page \(/about-us/contact-us/faculty-and-staff-directory/nancy-montague-archer\)](#)

### Lilijana Morris

Adjunct Professor

Office: FLC Main  
 Email: [morrisl@flc.losrios.edu](mailto:morrisl@flc.losrios.edu) (<mailto:morrisl@flc.losrios.edu>)  
 Web: [Lilijana Morris's Profile Page \(/about-us/contact-us/faculty-and-staff-directory/lilijana-morris\)](#)

### Joshua Williams

Adjunct Professor

Office: FLC Main  
 Email: [williaj@flc.losrios.edu](mailto:williaj@flc.losrios.edu) (<mailto:williaj@flc.losrios.edu>)  
 Web: [Joshua Williams's Profile Page \(/about-us/contact-us/faculty-and-staff-directory/joshua-williams\)](#)

## Science, Technology, Engineering, and Mathematics

[\(/academics/meta-majors\)](#)

This program is part of the Science, Technology, Engineering, and Mathematics meta-major.

LEARN MORE > [\(/ACADEMICS/META-MAJORS\)](#)