

**Course:** AST 113  
**Credit Hours:** 3  
**Prerequisite:** None

**Course Title:** Modern Astronomy  
**Department:** Physics, Astronomy, & Materials Science

**CORE-42 Category:** NATURAL SCIENCES - Astronomy: Astronomy  
**MOTR ASTR 100**                      **MOTR Hours:** 3

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*Information submitted by a department representative on 4/30/2021 3:29:06 PM – Compiled by Darren Wienberg, Academic Advising & Transfer Center*

**Typically Offered During:**

Fall Full Semester:	YES	Fall 1 <sup>st</sup> Block:	NO	Fall 2 <sup>nd</sup> Block:	NO
Spring Full Semester:	YES	Spring 1 <sup>st</sup> Block:	NO	Spring 2 <sup>nd</sup> Block:	NO
Summer:	NO				

**Typical Instructional Modality:**

Traditional (seated):	YES	Blended:	NO	Internet:	YES
Online Video:	NO	Web Conference:	NO		

**May Also Count Toward Department Offering:**

Major:	YES	Minor:	NO	Certificate:	NO
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*Please see online published semester class schedule and undergraduate catalog for detailed course offering information.*

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***How do you describe the course to students when they ask “What is this class about?” (Without using the catalog description)?***

In astronomy, we are the detectives of space. No one witnessed our galaxy forming, and so we use evidence of how it is now to determine how it came to be. This class is about science and the application of critical thinking to astronomy. We will learn about our universe, underlying physical principles that govern it, current techniques for studying our universe, and its connections to our daily lives. If seeking some laboratory experience, check out AST115 instead.

***Beyond meeting a General Education requirement, what benefits can students realize from choosing this course?***

Most of us will have little interaction with science during their university studies, yet critical thinking skills are more important than ever in this era of information overload via the internet. Discerning credible and authentic sources through the sea of misinformation is a vital skill. As part of this course, we will question where data come from and how they are used. In astronomy, investigating new ideas and discerning between them is our key to learning about things beyond Earth.

***Other than your major/minor/certificate students, what groups of students could find this course relevant to their degree program or career path?***

Students in programs where critical thinking and problem-solving are an important part of their career will especially find this course beneficial. Students of all backgrounds and degree programs will find aspects of this course helpful.

***Catalog Description (Fall 2022 Undergraduate Catalog)***

An introduction to our present knowledge of the nature of the universe, the galaxies, the stars, and the planets. A description of the natural laws and physical observations which are leading us to an understanding of our place in the cosmos. May only receive credit for one of AST 113, AST 114, or AST 115.