AST-Astronomy Courses

Courses

AST 101. Astronomy of the Universe. 3 Hours.
Survey of the universe of matter and energy. Interpretation of observations to develop a self-consistent view of the universe, basic physical laws and structures, cosmic history and evolution. Quantitative Literacy is a significant component of this course. This course meets Blazer Core Scientific Inquiry with a Flag in High Impact Practices/ Collaborative Assignments and Projects.

AST 102. Astronomy of Stellar Systems. 3 Hours.
Mechanisms and processes of universe and interrelationships as systems, including nature of stars and galaxies: formation, interior processes, including energy generation, evolution, and galaxies as systems. Lecture and laboratory. Quantitative Literacy is a significant component of this course. This course meets Blazer Core Scientific Inquiry with Flags in Sustainability and High Impact Practices/ Collaborative Assignments and Projects.

AST 103. Astronomy of the Solar System. 3 Hours.
Descriptive and interpretive approach to solar and interplanetary phenomena, comets, and cometary/meteor relationships, asteroids and planetesimals, planetary surfaces, atmospheres, and interior structures. Physical law governing the solar system and quest for understanding its history and evolution, including formation. Lecture. This course meets Blazer Core Scientific Inquiry with a Flag in High Impact Practices/ Collaborative Assignments and Projects.

AST 105. Extraterrestrial Life. 3 Hours.
Interdisciplinary treatment (astronomy, chemistry, biology, planetary science, communications, and information sciences) of the universe as habitat, cosmic chemistry of molecules and evolution, environmental requirements, origin and occurrence of life, search for evidence, intelligence, communication, and contact. Lecture and laboratory. This course meets Blazer Core Scientific Inquiry with a Flag in High Impact Practices/Collaborative Assignments and Projects.

AST 111. Astronomy of the Universe Laboratory. 1 Hour.
Laboratory experience demonstrates how astronomy is practiced through observation experiences, laboratory experiments, and exercises involving analysis of data. Specific experiences illuminate topics presented in AST 101. Quantitative Literacy is a significant component of this course. Must take with AST 101 to receive credit. This course meets Blazer Core Curriculum Scientific Inquiry with a flag in Collaborative Assignments & Projects.

AST 112. Astronomy of Stellar Systems Laboratory. 1 Hour.
Laboratory experience demonstrates how astronomy is practiced through observation experiences, laboratory experiments, and exercises involving analysis of data. Specific experiences illuminate topics presented in AST 102. Quantitative Literacy is a significant component of this course. Must take with ST 102 to receive credit. This course meets Blazer Core Curriculum Scientific Inquiry with flags in Sustainability and Collaborative Assignments and Projects.

AST 113. Astronomy of the Solar Systems Laboratory. 1 Hour.
Laboratory experience demonstrates how astronomy is practiced through observation experiences, laboratory experiments, and exercises involving analysis of data. Specific experiments illuminate topics presented in AST 103. Must take AST 103 to receive credit. This course meets Blazer Core Curriculum Scientific Inquiry with a flag in Collaborative Assignments and Projects.

AST 115. Extraterrestrial Life Laboratory. 1 Hour.
Laboratory experience illuminates topics presented in AST 105. Must take AST 105 to receive credit. This course meets Blazer Core Curriculum Scientific Inquiry with a flag in Collaborative Assignments and Projects.