

ASTRONOMY (AST)

AST1002 HORIZONS IN ASTRONOMY (3.00 Credits)

AST 1002 is an introductory course that outlines the origin, characteristics, and evolution of the solar system, stars, and galaxies and engages the historical milestones in astronomy from the ancient astronomers to the modern observatories. Students are expected to evaluate current and expected future trends in astronomical research and theories using written compositions and analysis in algebra involving solutions of multi-variable equations and formulas. Math placement score equivalent to MAT1033, MAC1105, or MAC1105C level of equation solving is sufficient.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

AST1003 ASTRONOMY OF THE SOLAR SYSTEM (3.00 Credits)

AST 1003 is an astronomy course outlining the knowledge gained from space probes of the Sun, the Moon, Earth, and the planets and evaluating the Solar System formation theories. The students will use writing compositions, observations, and mathematical analysis to analyze the data obtained by observing these bodies.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in one of the following options:

- Option 1 - Prerequisite: MAT0028C (minimum grade: C)
- Option 2 - Prerequisite: MAT1033 (minimum grade: C)
- Option 3 - Prerequisite: MAC1105 (minimum grade: C)
- Option 4 - Prerequisite: MAC1114 (minimum grade: C)
- Option 5 - Prerequisite: MAC1140 (minimum grade: C)
- Option 6 - Prerequisite: MAC2233 (minimum grade: C)
- Option 7 - Prerequisite: MAC2311 (minimum grade: C)
- Option 8 - Prerequisite: MAC2312 (minimum grade: C)
- Option 9 - Prerequisite: MAC2313 (minimum grade: C)
- Option 10 - Prerequisite: MGF1106 (minimum grade: C)
- Option 11 - Prerequisite: MAP2302 (minimum grade: C)
- Option 12 - Prerequisite: MAS2103 (minimum grade: C)
- Option 13 - Prerequisite: STA2023 (minimum grade: C)
- Option 14 - Prerequisite: MGF1107 (minimum grade: C)
- Option 15 - Prerequisite: MAC1147 (minimum grade: C)
- Option 16 - Prerequisite: MAT0028C (minimum grade: C)

AST1004 ASTRONOMY OF STARS AND GALAXIES (3.00 Credits)

AST 1004 is an astronomy course outlining the important astronomical entities (e.g., stars, gas, dust, galaxies, quasars) beyond the solar system and their evolution in terms of the quantum mechanical effects in the macro world. The students will use writing compositions, observations, and mathematical analysis to analyze these concepts.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in one of the following options:

- Option 1 - Prerequisite: MAT0028C (minimum grade: C)
- Option 2 - Prerequisite: MAT1033 (minimum grade: C)
- Option 3 - Prerequisite: MAC1105 (minimum grade: C)
- Option 4 - Prerequisite: MAC1114 (minimum grade: C)
- Option 5 - Prerequisite: MAC1140 (minimum grade: C)
- Option 6 - Prerequisite: MAC2233 (minimum grade: C)
- Option 7 - Prerequisite: MAC2311 (minimum grade: C)
- Option 8 - Prerequisite: MAC2312 (minimum grade: C)
- Option 9 - Prerequisite: MAC2313 (minimum grade: C)
- Option 10 - Prerequisite: MAC1147 (minimum grade: C)

2 Astronomy (AST)

AST1022L ASTRONOMY LABORATORY (1.00 Credits)

AST1022L is a laboratory which allows students to able to collect and analyze data in a variety of experiments covering topics covered in its companion courses: AST1002, AST1003, or AST1004. Students will create experiment reports and conduct telescopic observations.

Total Contact Hrs: 48.00

Lab Hrs: 48.00

Fees: LABORATORY FEE \$3.00

Complete all the courses in one of the following options:

- Option 1 - Pre or Corequisite: AST1003
- Option 2 - Pre or Corequisite: AST1004
- Option 3 - Pre or Corequisite: AST1002