COURSE TITLE: General Astronomy
COURSE NUMBER: AST 1002

COURSE DESCRIPTION (with prerequisites):
A course designed to aid the student in understanding the relationship between the earth and the universe. The natural structure and theories of the solar system are presented as a background to a discussion of our galaxy and universe. Topics discussed include the earth, the solar system, historical astronomy, constellations, space exploration, theories of the origin of the universe, and the construction of a telescope. 3 semester hours credit.

NAME(S) OF INSTRUCTORS:
Dr. Jeff Bodart

EFFECTIVE ACADEMIC YEAR:
2012-13

REQUIRED TEXTBOOKS AND INSTRUCTIONAL SUPPLIES:

GRADING POLICY:
The standing of a student in each course is expressed by one of the following letters and corresponding grading system:
A – 90 – 100
B – 80 – 89
C – 70 – 79
D – 60 – 69
F – 59 or less
The Chipola Catalog provides policies and procedures regarding the grading system. A student’s Grade Point Average is derived from the grading system/quality point scale.

ATTENDANCE AND WITHDRAWAL POLICIES:
Chipola College expects regular attendance of all students. Students who are absent from classes for any reason other than official college activities must satisfy the instructor concerned that the absence was due to illness or other clearly unavoidable reasons. Otherwise, the student may suffer grade loss at the discretion of the instructor. Chipola policy allows each instructor to specify in the Instructor First Day Handout whether or not an absence is excusable and what affect the absence or tardy may have on the grade.
A student is allowed to repeat a course a maximum of three (3) times. **On the third attempt a student (1) must bear the full cost of instruction (unless waived by Student Services), (2) cannot withdraw, and (3) must receive a grade.**

**MAKE-UP POLICY:**
Chipola allows each instructor to specify in the Instructor First Day Handout the makeup policy.

**ACADEMIC HONOR CODE POLICY:**
Students are expected to uphold the Academic Honor Code. Chipola College’s Honor Code is based on the premise that each student has the responsibility to (1) uphold the highest standards of academic honesty in his/her own work; (2) refuse to tolerate academic dishonesty in the college community; and (3) foster a high sense of honor and social responsibility on the part of students. Further information regarding the Academic Honor Code may be found in the Chipola Catalog, Student Governance section.

**STUDENTS WITH DISABILITIES POLICY:**
Chipola College is committed to making all programs and facilities accessible to anyone with a disability. Chipola’s goal is for students to obtain maximum benefit from their educational experience and to effectively transition into the college environment. Students with disabilities are requested to voluntarily contact the Office of Students with Disabilities to complete the intake process and determine their eligibility for reasonable accommodations.

**LIBRARY AND ON-LINE REFERENCE MATERIALS:**
The library is a comprehensive learning resource center providing information in print, electronic, and multimedia format to support the educational objectives of the College. On-line catalogs, e-books and electronic databases can be accessed by using the **LINCCWeb** icon on the Chipola Library website at [www.chipola.edu/library](http://www.chipola.edu/library). If you have questions about database usage consult the “How to Use the Chipola Databases” on the Library website or call the Library at 850/718-2274 during regular hours. Library hours are posted each semester at the building entrance and on the Library website. See your Instructor First Day Handout for individual instructor recommendations and resources.

**TECHNOLOGY RESOURCES:**
The **Information Technology Center**, located in the library, is equipped with computer workstations. Lab hours are posted each semester at the building entrance and on the Library website. The **ACE Lab**, located in Building L, is available for tutoring and is equipped with computer workstations. Lab hours are posted each semester at the room entrance. The college’s learning management system is **Desire 2 Learn (d2l)**. Classes become available on d2l on the first day of the semester. It is the student’s responsibility to log onto the d2l system the first day of class to establish the first day of attendance and to check announcements. For further information, contact your instructor or the Director of Online Learning.
ELECTRONIC DEVICE USAGE:
All electronic devices such as cell phones, beepers, pagers, and related devices are to be silenced prior to entering classrooms and/or laboratories to avoid disruption. Should it become necessary for a student to leave his/her “device” on to send or receive an emergency call and/or text message, the student must inform the instructor prior to class. If the student finds it necessary to send and/or receive an emergency call and/or text message during class/lab time, he/she is instructed to take all books and belongings and step outside the classroom to deal with the situation. To minimize classroom disruption and the distraction to classmates, the student will not be permitted to reenter the classroom during that class period. Any time a test is being administered, all such devices must be turned off and put away. If a device is seen or heard during an exam, a score of zero will be given for that exam. Initial and repeated infractions may result in disciplinary action.

DISCIPLINE SPECIFIC COMPETENCIES / LEARNING OUTCOMES:
Explore the History, Nature, Methods, and Limits of Science

NS-1 Use methods of scientific investigation.
NS-2 Apply scientific principles.
NS-3 Identify scientific ideas related to the history or nature of science.
NS-4 Examine issues and problems facing modern science, such as ethics, values, and public policies.
NS-5 Identify relationships between science and technology.

LINKING COURSE-LEVEL STUDENT LEARNING OUTCOMES WITH DISCIPLINE-SPECIFIC COMPETENCIES, ASSESSMENT METHODS, AND ARTIFACTS

<table>
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<tr>
<th>COURSE-LEVEL STUDENT LEARNING OUTCOMES FOR AST 1002</th>
<th>DISCIPLINE-SPECIFIC GENERAL EDUCATION COMPETENCIES</th>
<th>ASSESSMENT METHODS FOR COURSE LEVEL STUDENT LEARNING OUTCOMES</th>
<th>ARTIFACTS FOR AA PROGRAM ASSESSMENT</th>
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<tr>
<td>• Review the origins of astronomy and the discoveries that led to our present understanding of the universe.</td>
<td>NS-1, NS-2, NS-3, NS-4, NS-5, SS-5, M-2, H-1, T-3</td>
<td>OT, UT, Q</td>
<td>Construct a data table summarizing the physical characteristics of the planets in addition to providing unique astronomical facts and a detailed telescopic</td>
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<tr>
<td>• Identify the basic parts of several types of telescopes and how they are used to provide information from the light of a celestial object.</td>
<td>NS-1, NS-2, NS-3, NS-4, NS-5, SS-5, M-2, H-1, T-3</td>
<td>OT, UT, Q</td>
<td></td>
</tr>
<tr>
<td>• Explain how the motions of the</td>
<td>NS-1, NS-2, NS-3, NS-4,</td>
<td></td>
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</table>
earth, moon and sun affect our perception as observers on the earth.

- Review physical characteristics of the planets in our solar system and the theories that explain the formation of planetary systems.

- Describe the formation of stars from interstellar clouds and the stellar remnants associated with a star’s evolution.

| NS-5, SS-5, M-2, H-1, T-3 | OT, UT, Q | image for each submitted electronically via D2L. |
| NS-1, NS-2, NS-3, NS-4, NS-5, SS-5, M-2, H-1, T-3 | OT, UT, Q | |
| NS-1, NS-2, NS-3, NS-4, NS-5, SS-5, M-2, H-1, T-3 | OT, UT, F, Q | |

**Assessment Codes**

T = Tests  Pre/Post = Pre- and Post-Tests
OT = Objective Tests  UT = Unit Tests
Q = Quizzes  F = Final Examination
CF = Cumulative Final  EX = Departmental Exam
SE = Nat’l or State Standardized Exam
RPT = Report/Presentation  SP = Skills Performance
SD = Skills Demonstration  W = Writing Assignments
E = Essays  DE = Documented Essays
RP = Research papers  J = Jury
R = Recital  Proj. = Projects
Exp. = Experiments  Cap. Proj. = Capstone Project
Cap. Course = Capstone Course  Prac. = Practicum
Intern. = Internship  H = Homework
PS = Problem Solving  DB = Discussion Board
BO = Behavioral Observation  Clin. = Clinicals
CS = Case Study  CP = Case Plan
Port. = Portfolio  Obs. = Teacher Observation
Sk. Check = Skills Check-off  Curriculum Frameworks
JP = Judged  Performance/Exhibition

MEANS OF ACCOMPLISHING STUDENT LEARNING OUTCOMES:

Lecture is the primary method of instruction covering topics primarily from the textbook. The presentation is enhanced by overhead slides, class demonstrations, and board illustrations. Students are responsible for any material contained within the assigned chapters of the textbook, as well as any material covered during lecture. Students should read the text, use the lecture outline PowerPoint’s for in-class notes, and review the online review quizzes in order to prepare for the chapter tests. The students' understanding of the material and familiarity with the terminology will be assessed using a multiple choice format exam. Assignments completed in and outside of class count toward the semester grade, including a solar system survey project completed outside of class. The department’s Meade LX200GPS telescope is used to illustrate modern GPS computer-guided observational techniques while providing the students an opportunity to view some common astronomical objects.

ASSIGNMENT AND/OR COURSE OUTLINE

See your Instructor First Day Handout for individual instructor assignment schedule.