Course Description

Reviews the history of astronomy and the development of astronomical thought leading to the birth of modern astronomy and its most recent developments.

Prerequisites

None

Course Textbook


Mastering Astronomy with eBook

To access Mastering Astronomy and eBook:

1. Log onto Mastering Astronomy (www.masteringastronomy.com)
2. Click on Register New Student
3. Select Yes I have an access code. Your access code should be received with your textbook and the Mastering Astronomy Student Access Kit with eBook
4. Click on I Accept License Agreement and Privacy Policy
5. Do You have a Pearson Education Account – Select No
6. Create Login Name – To verify student use you must use the following format for you user name First_Last name and Student ID
7. Create Password
8. Enter the Access Code (provided with textbook)
9. You will be asked for your Course ID which is MABERNARD90745

Once you have accessed the course:

1. On the left hand toolbar, click on Assignments
2. Complete the Introduction to Mastering Astronomy Assignment
3. This will allow you to become familiar with the program

Credits

Upon completion of this course, the students will earn three (3) hours of college credit.

Course Learning Objectives

Upon completion of this course, students should be able to:

1. Define and apply the terminology used in astronomy.
2. Identify and discuss the major contributors in astronomy.
3. Discuss matter and light and their interactions.
4. Describe the different types of telescopes and discuss how they are used.
5. Describe the major objects in the Solar System.
6. Evaluate the various kinds of eclipses.
7. Compare and contrast objects in the Solar System to the Earth.
8. Compare and contrast terrestrial and Jovian planets.
9. Describe the major objects in the universe.
10. Discuss stellar evolution.
11. Describe and categorize the major events in the origin of the universe.
12. Discuss the fate of the universe.
13. Analyze current topics in space exploration.

Course Topical Outline

Unit I: Foundations of Astronomy Part I
Unit II: Foundations of Astronomy Part II
Unit III: Our Planetary System Part I
Unit IV: Our Planetary System Part II
Unit V: The Stars Part I
Unit VI: The Stars Part II
Unit VII: The Greater Universe
Unit VIII: The Solar System

Course Structure

1. Unit Learning Objectives: Each unit contains learning objectives that specify the measurable skills and knowledge students should gain upon completion of the unit.
2. Unit Summaries: Each unit contains an overview, or summary, of the information to be covered.
3. Reading Assignments: Each unit contains reading assignments from one or more chapters from the textbook.
4. Key Terms: Key Terms are intended to guide students in their course of study. Students should pay particular attention to Key Terms as they represent important concepts within the unit material and reading.
5. Assessments: This course contains eight unit assessments, one to be completed at the end of each unit. Assessments are composed of 10 multiple-choice questions and 2 written response questions.
6. Laboratory Assignments: These assignments appear in Units II, IV, and VI. Instructions and details can be found below and in each respective unit.
7. Final Exam (Proctored): The final exam is composed of fifty multiple-choice questions (randomly pulled from a pool of seventy questions). All final examinations are supervised by an approved Proctor. You are permitted four (4) hours to complete this exam, in the presence of your approved proctor. This is an open book exam. Only course textbooks and a calculator, if necessary, are allowed when taking proctored exams.

Laboratory Exercises

You are required to complete three (3) lab exercises following Unit II, Unit IV, and Unit VI of this course. Laboratory exercises in this course may be accomplished through assigned readings. To gain a fuller appreciation of each exercise, students will assess and complete interactive style lessons found within assigned readings and/or select research links for each lab. After completing the required reading and/or research assignments, students will answer each of the given laboratory exercises shown in each lab.

Each lab exercise may contain researchable style essay questions as well as multiple choice or short answer questions or other exercises that are to be submitted for grading. Students are to cite corresponding references or source links, when required, within assigned essay responses, following CSU’s required APA style guidelines.
All exercises and answers are located within the respective unit. Students are strongly recommended to complete all phases of the corresponding unit before completing each lab assignment. When students complete a lab assignment in Blackboard, answers are to be submitted within Blackboard for instructor access and grading. Students are instructed to note any calculations used to arrive at solutions within the space provided. Finally, students are instructed as follows: **Do not send completed exercises to student services or your instructor.**

**APA Guidelines**

CSU requires that students use the APA style for papers and projects. Therefore, the APA rules for formatting, quoting, paraphrasing, citing, and listing of sources are to be followed. A document titled “APA Guidelines Summary” is available for you to download from the APA Guide Link, found in the Learning Resources area of the myCSU Student Portal. It may also be accessed from the Student Resources link on the Course Menu. This document provides links to several internet sites that provide comprehensive information on APA formatting, including examples and sample papers.

**CSU Grading Rubric for Papers/Projects**

The course papers will be graded based on the CSU Grading Rubric for all types of papers. In addition, all papers will be submitted for electronic evaluation to rule out plagiarism. Course projects will contain project specific grading criteria defined in the project directions. To view the rubric, click the Academic Policies link on the Course Menu, or by accessing the CSU Grading Rubric link, found in the Learning Resources area of the myCSU Student Portal.

**Final Examination Guidelines**

Final examinations are to be administered to students by an approved proctor on a date that is mutually convenient. The student is responsible for selecting a qualified proctor that must be approved by the University.

A list of acceptable proctors is provided in the Examination Proctor Policy. To review the complete Examination Proctor Policy including a list of acceptable proctors, proctor responsibilities, proctor approval procedures and the Proctor Agreement Form, go to the myCSU Student Portal from the link below.

http://mycsu.columbiasouthern.edu

Proctored Final Exams are taken online. To request your proctored final exam, select the designated links found in the online course. You are permitted four (4) hours to complete this exam, in the presence of your approved proctor. This is an open book exam. Only course textbooks and a calculator, if necessary, are allowed when taking proctored exams.

**Grading**

Your grade for the course will be determined by your performance on the following assignments and exams weighted as follows:

- **Unit Assessments (8 @ 9% each)** = 72%
- **Laboratory Assignments (3 @ 5% each)** = 15%
- **Final Exam** = 13%
- **Total** = 100%