Class Description: Welcome to astronomy 101. In this course we survey stellar and galactic astronomy including the properties of atoms, light, stars, galaxies, and the formation and evolution of the universe. UC credit limitation: No credit for ASTRON-100 if taken after 101 or 102.

Textbook and Access code information, including costs: It is imperative that you choose the correct book during the registration process. We will be using Astronomy: A Beginners Guide to the Universe, 7th edition, by Chaisson and McMillan, ISBN: 0321814916

Other Course Materials Required: Mastering astronomy is required. Neither used nor rented books will come with an unused code (which costs $66 by itself), so plan accordingly. If you have questions, email me.

Initial instructions for beginning of class: As the title illustrates, this is an entirely online course. All lecture, homework, quizzes, discussion assignments, and exams will be given online through two systems: 1. Blackboard Once you register for the course you are automatically enrolled in the course website, Blackboard, which can be found https://bb9.canyons.edu This is the main area in which to download your lectures as well as receive I announcements I may post. I will also make announced appearances in the chat room for live office hours as well as check the discussion boards to help out. Please take time to go through the site tutorial to learn about all the features available to you. There will be discussion boards on which you may post questions that your fellow classmates may help you with, a chat room that you can use with your classmates or me, private message options, and resource links (in which I may put supplemental or links to interesting sites). Instructions for entering your username and password can be found on the same page. Let me know if you have trouble logging in as your first assignment will be due during the first week on the blackboard system. The course website will be where you will download lecture material, receive announcements, communicate with me, and your fellow classmates, and ask questions. Once in, please familiarize yourself with your website. Try out the tabs, navigate the page, go to the discussion boards and introduce yourselves, etc You need to introduce yourself in the discussion section on Blackboard by the second day of class, August 26, or you will be dropped as a no-show and I will add those on the wait list! You should plan on checking the class website at least 2 times per day to keep up with any new announcements or help each other. If you need help with the Blackboard system, you can also call Tech support at (661) 362-3344. 2. Mastering Astronomy The other part of the course is the online homework management system. You can register at www.masteringastronomy.com If you are registering for the first time, click the STUDENTS tab on the home page. If you have an access code (found
bundled in select NEW books only) indicate that you have a code and set up your account. Once your account is set up, log into mastering astronomy and look for your course. If you do not have an access code and need to purchase one online, choose that option. You are then directed to the page in which you choose your book. Choose the correct book for the course! (Even if you are using a different book from which to study) You may then go on to create your account. I will post course IDs for mastering on your blackboard page.

Testing regulations (included proctoring guidelines link): Homework and test dates will be listed on your mastering astronomy course home page under assignments. There may be multiple homework assignments per week. There is one of each homework assignment per chapter, and for each exam, in which 3-4 chapters per exam will be covered. As everything in the class is online, I suggest you work through this checklist to see if online is right for you: Do you have access to a computer with cable or high-speed internet access? (Note: You may use campus computers for free during normal business hours) Are you able to work (for the most part) independent of the instructor? You will be required to read the book and lecture notes and do assignments based on the readings. The instructor will be available online or on campus to help with specific questions and help with homework. Are you computer literate? You must know how to send and receive e-mail, including attachments, follow online instructions, navigate web pages, etc. Are you comfortable enough with reading and English to work through your text? Are you able to read PowerPoint files (either through Microsoft Office or Open Office)? Do you have Flash and Adobe Reader installed? (If not you need to install these three programs to be able to work through the class) If you answered No to any of these questions (except the last which is a requirement), you may want to consider an on-campus version of the class.

Course Management System Information: See 'initial instructions for beginning of class.'

Student Learning Outcomes: Student Learning Outcome: 1. Compare and contrast the properties, dynamics, and evolutionary cycles of different types of stars and galaxies. Course Objectives: 1. Compare and contrast ancient and modern theories in Astronomy. 2. Explain seasons, moon phases, and eclipses as they relate to motions of the Sun-Earth-Moon system. 3. Utilize Kepler's Laws, Newton's Laws, and gravity to explain celestial motions. 4. Classify and compare optical systems and detectors used in Astronomy. 5. Analyze the nature of light and the information it contains. 6. Examine the properties and formation of stars, including the Sun. 7. Differentiate between various mechanisms for the evolutionary cycles of low mass and high mass stars. 8. Inventory the Milky Way Galaxy and examine its dynamics. 9. Classify galaxies by structure and content. 10. Describe current models for the universe from formation to possible fates.

Useful Links: See 'initial instructions for beginning of class.'

Other:

DSPS Information: Please contact me ASAP by email if you require accommodation.