Semester and Year: Summer 2019

Section: 86401   Class time and days: MTWRFSU   Room: Online

Instructor: H. Appleby   Contact Info: H.Appleby@dcccd.edu

Last date to withdraw: Tuesday, July 30th

Final Exam Day and time: Thursday, August 8th online (2 hours between 12:05 a.m. and 11:55 p.m.)

Evaluation Procedures:
- Daily: 15%
- Lab: 20%
- Three best tests grades: 45% (15% each)
- Comprehensive Final: 20%

Attendance Policy: I highly recommend attending all classes. I will allow you to turn in one (1) homework paper late if it is less than 1 weeks late and will not allow make-up pop quizzes.

Required Materials:
21st Century Astronomy, 5th ed., Kay, Palen, Smith, & Blumenthal w/ SmartWork, ISBN 978-0-393-93899-9, Norton (SmartWork acces/registration code and Student Set ID will be found on eCampus syllabus)

Units of Instruction/Class Calendar:
Module 0 – Class Prep., Introductory and course orientation materials, SmartWork material
Module 1 – Background, Ch. 1, Ch. 3.4, Ch. 4.1-4.3, Ch. 5
Module 2 – Stellar Birth & Basics, Ch.7, Ch. 13, Ch. 14, Ch. 15
Module 3 – Stellar Stages, Ch. 16, Ch. 17, Ch. 18
Module 4 – Galactic Basics Ch. 19, Ch. 20, Ch. 21
Module 5 – Cosmology, Ch. 22, Ch. 23
Module 6 – Life “Out There” Ch. 24
Three chapters per week beginning week 1 (week starting July 13th). Full calendar on eCampus

Instructor Policies and Suggestions for Student Success:
Etiquette: Professional and mature behavior is expected at all times, both in and out of class, in-person or via electronic means, towards all members of the class.
College Policies and Procedures:
For Institution Policies, please refer students to the Richland website www.richlandcollege.edu (Current Students) or to www.richlandcollege.edu/syllabusinfo/syllabiInformation.pdf

CATALOG COURSE DESCRIPTION
This course concerns fundamental properties of stars, stellar systems, star clusters, nebulae, interstellar gas and dust, and galaxies. Included is the study of the sun, Milky Way Galaxy, stellar evolution, black holes, and current cosmological ideas. The laboratory includes outdoor viewing sessions and the study of timekeeping, use of spectra, and motions of stars and galaxies.

PREREQUISITES
Developmental Reading 0093 or English as a Second Language (ESOL) 0044 or have met the Texas Success Initiative (TSI) standard in Reading.

COURSE OBJECTIVES
To understand and apply a method and appropriate technology to the natural sciences; to recognize scientific and quantitative methods and the differences between them these approaches and other methods of inquiry; to communicate findings, analyses, and interpretation both orally and in writing; to recognize the influences and contribution of science to modern culture.

CORE CURRICULUM STATEMENT
1. Reading: The ability to read and interpret a variety of printed materials – books, articles, and documents – above a 12th grade level.
2. Speaking: Communicate orally in clear, coherent and persuasive language appropriate to purpose, occasion, and audience – above a 12th grade level.
3. Listening: Analyze and interpret various forms of spoken communication, possess sufficient literacy skills of writing, and reading – above a 12th grade level.
4. Critical thinking: Think and analyze as a critical level.
5. Computer literacy: Understand our technological society, use computer-based technology in communication, solving problems, and acquiring information.