

ASTR 1020 SYLLABUS

Course title: Stellar and Galactic Astronomy
Class hours: 3

Catalog Number: ASTR 1020
Credit hours: 3

Instructor Dr. Charles Johnson
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Class web page <http://faculty.sgc.edu/cjohnson/Classes/1020astr/ast1020.html>
Video Podcast <itpc://podcasting.gcsu.edu/4dcgi/podcasting/southga/channels22741/27458.xml>

Dr. Johnson's Class Schedule For Fall 2010					
	Monday	Tuesday	Wednesday	Thursday	Friday
8:00-8:59 AM	PHYS 1111/2211		PHYS 1111/2211		
9:00-9:59 AM	8:00-9:15	Office Hour	8:00-9:15	Office Hour	
10:00-10:59 AM	Office Hour	Office Hour	Office Hour	Office Hour	
11:00 -11:59 AM					
12:00-12:59 PM	PHYS 2211 Lab				
1:00-1:59 PM	12:30-2:20 PM		Office Hour	Office Hour	
2:00-2:59 PM		ASTR 1020 Lab 2:30-4:20	Office Hour	Office Hour	
3:00-3:59 PM	PHYS 1111 Lab				
4:00-4:59 PM	2:30-4:20 PM				
5:00-5:59 PM					
6:00-6:59 PM		ASTR 1020 6:00-8:30			
7:00-7:59 PM					
8:00-8:59 PM					

Textbook

Authors	Title	Publisher	Edition
Bennett, Donahue, Schneider, Voit	<i>Stars, Galaxies, & Cosmology (The Cosmic Perspective)</i>	Addison Wesley	5 th

NON-STUDENT POLICY: It is campus policy that children and visitors may not be present in classrooms when classes are in session or laboratories at any time.

Course Description

ASTR 1020 Stellar and Galactic Astronomy.

The study of the sun and stars, their physical properties and evolution, interstellar matter, star clusters, our galaxy and other galaxies, and the origin and evolution of the Universe.

Prerequisite: MATH 1101 or 1111. 3 - 0 - 3.

A Word about Astronomy

This is a science class and, therefore, it has similarities to all other science classes. Some students believe that if they can follow the lectures in class, then they have learned the material. This is not true. To understand astronomy, a student must do a significant amount of work outside of class thinking about, and interacting with, the course material. No one ever learns by simply reading about it or listening to someone talk about it. You learn it by making the effort to understand the material, building mental pictures, and by critically thinking about the principles learned. The standard requirement in a college class is that you spend two hours outside class working on the material for every hour in class. Since this is a three-hour class, you should plan on spending at least six hours per week outside of class interacting with the material. Few students will be able to succeed in this class without investing that amount of time.

Course objectives

In completing the course, the student should:

- Develop an understanding of the physical properties and life cycle of stars.
- Develop an understanding of the structure of galaxies.
- Develop an understanding of the beginnings of the Universe and its expansion.

While taking this class:

- Graduates will demonstrate sufficient knowledge of natural laws and processes to understand scientific issues in a modern society.
- Graduates will demonstrate the ability to use appropriate technology to produce presentations and reports and/or conduct research and data analysis.

Activities, evaluation, and make-up policy

There will be four tests and a comprehensive final exam. For the weeks there is not a test, you will have a quiz on that weeks topics. There will be two reports due throughout the semester. Your grade will be based on:

2 Reports @12% each	24%	Course Grade	Letter Grade
Quizzes	12%	90 or above	A
Final Exam	16%	80-89	B
4 Tests @ 12% each	48%	70-79	C
		60-69	D
		Less than 60	F

No make-up tests will be offered to students who are absent for tests during the semester unless you have a documented college approved excuse. Make-up test will consist of 20 short answer questions. Make-up tests will be much more difficult.

HARDSHIP WITHDRAWAL: A hardship W may only be sought after midterm in the case of a non-academic hardship such as severe extended illness. The procedure for seeking a hardship W is located on page 58 of the college catalog.

ATTENDANCE POLICY

The following is the Attendance Policy as outlined in the Student Handbook:

- 1) Each division will establish attendance policies for each course.
- 2) Work may be made up in case of absences with legitimate excuses. Excuses may be judged legitimate by the instructor involved. If the instructor does not accept the student's excuse, the appeal procedure will be the same as the grade review procedure.
- 3) Group excuses for college-sponsored activities from the Dean of Students will be considered legitimate excuses.
- 4) It will be necessary that the requirements for each course be distributed at the first meeting of the class.

To get the most from any course, each student should attend all the scheduled classes and laboratory periods. However, in a case where that is not possible the Division of Natural Science and Mathematics has the following specific requirements:

- 1) A student will be assigned the grade of zero for any assigned class work or exam missed because of an absence if the absence is not excused by the instructor.
- 2) A student will be given a grade of zero for any assigned work or exam missed because of an excused absence if the work missed is not made up.
- 3) The maximum number of class days that a student can miss and still receive credit for a class is twice the number of weekly meetings.

Special Needs Statement

Special Needs Statement: Students requiring classroom accommodations or modifications because of a documented disability should discuss this need with the instructor at the beginning of the semester. Students who have not presented validation for learning disabilities from the Regents' Center for Learning Disability (University System of Georgia) should complete all necessary paperwork and submit this to Mr. Wes Brown, Vice President for Student Success, Richey Hall, Room 161. The telephone number is (912)-260-4312. Students who have not presented validation for physical disabilities should register with the Office of the Vice President for Student Success.