

ASTR 1010 SYLLABUS

Course title: Astronomy of the Solar System (on-line)
Class hours: 3

Catalog Number: ASTR 1010
Credit hours: 3

Instructor Dr. Charles W. Johnson
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Dr. Johnson's Class Schedule For Fall 2013					
	Monday	Tuesday	Wednesday	Thursday	Friday
8:00-8:59 AM	PHYS 1111/2211	Office Hour	PHYS 1111/2211		ASTR 1010 Lab
9:00-9:59 AM	8:00-9:15	Office Hour	8:00-9:15		8:00-9:50 PM
10:00-10:59 AM	Office Hour		Cabinet Meeting	Office Hour	
11:00 -11:59 AM	Office Hour			Office Hour	
12:00-12:59 PM					
1:00-1:59 PM	PHYS 1111 Lab	PHYS 1111			
2:00-2:59 PM	1:00-2:50 PM	1:00-2:50*	Office Hour	Office Hour	
3:00-3:59 PM	PHYS 2211 Lab	Office Hour*	Office Hour		
4:00-4:59 PM	3:00-4:50 PM			PHYS 1111	
5:00-5:59 PM				3:00-5:30*	
* On the Waycross Campus					

Textbook

Authors	Title	Publisher	Edition
Bennett, Donahue, Schneider, Voit	<i>The Solar System (The Cosmic Perspective)</i>	Addison Wesley	6 th

Course Description

ASTR 1010 Astronomy of the Solar System

Astronomy from early ideas of the cosmos to modern observational techniques. Topics include solar system, planets, satellites, and minor bodies. The origin and evolution of the solar system.

Prerequisite: MATH 1001 or 1111. 3-0-3.

We will be using the consolidated (SGC and Waycross) Desire2Learn (D2L).

If you need help getting your user name and password for D2L:

- Go to Self-Service Banner to obtain your school email address
- Click the Personal Information Menu tab
- Click View email addresses
- **Your D2L username will be the part of your email address prior to the @ sign**
- Go to <https://sgsc.view.usg.edu/>, click "Forgot Password"
- Read the information, enter your username, and click Submit
- A reset password link will be sent to your student email.

If you have trouble with D2L, student email, or Self-Service Banner, please go to <http://www.sgc.edu/help/> to request further assistance.

Course objectives

In completing the course, the student should:

- Develop an appreciation for the historical origins of astronomy.
- Develop an understanding of the physical laws governing the motions of the solar system.
- Develop an understanding of the physical properties of planets.
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Course content

- The Essence of Astronomy—what are astronomy, constellations, annual motions, eclipses.
- The Early History of Astronomy—Babylonian astronomy, Greek developments, the Ptolemaic system.
- Renaissance Astronomy—Copernicus, Kepler's laws of planetary motion, Galileo.
- The Laws that Govern Motion—Newton's laws of motion, gravity, energy, angular motion and orbits.
- Light and Telescopes—the nature of light, spectral lines, types of telescopes.
- The Solar System—origins of the solar system, the Earth-Moon system, the terrestrial planets, the gas giants, interplanetary matter.
- Chances of Companionship—origins of life, the Drake equation.

Activities, evaluation, and make-up policy

This class is broken up into 10 lessons. For each lesson you will have a set of notes, a set of lectures and some assignments. The due dates for the assignments will be posted on the calendar. The assignments must be finished by the date indicated on the class calendar. The assignments will consist of multiple choice tests and some discussion postings. You will get two chances to take the test, with your grade being the average of your two grades. You will also have two papers to complete. For more information about the paper see the main class web page. The paper file name will have the following format:

First_name_Last_name_Paper_#

For example if I turned in the first paper I would save it as: Charles_Johnson_Paper_1

To turn in the paper you will need to submit them using the DropBox button (on the main web page). I will not accept any paper that is turned in using e-mail.

For each lesson I will post a discussion question that each student will post a response. Each student will also make a comment on another students posting. You will also have to read a majority of the posts.

Your grade will be based on the following:

Papers (2 @ 20 points each)	40
Discussion Questions (10 @ 2 points each)	20
Tests (10 @ 2 points each)	20
Comprehensive Final Exam	20

Course Grade	Letter Grade
90 or above	A
80-89	B
70-79	C
60-69	D
Less than 60	F

HARDSHIP WITHDRAWAL: A hardship withdrawal 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 withdrawal is located on page 62 of the college catalog.

Attendance Policy:

This course is presented entirely online using Desire2Learn. Students are expected to access the class website daily for updates, reminders, and assignments.

This course is online—each student must use their Desire2Learn account for this course; personal e-mail accounts cannot be used.

Most of the contact between students and the instructor in this course will be via e-mail; students should communicate with one another through Desire2Learn as well.

- All e-mail communication must be through the course system. (Desire2Learn)
- Always follow proper Netiquette, including proper language, tone, etc when communicating.
- E-mails to the instructor will normally be answered within at least two working days (weekends and holidays are not working days).
- All assignments and files must be attached as requested including the correct file names as outlined.
- I will notify the class at any time if I am unavailable for an extended period of time.

SGSC Douglas Campus Access Statement

If you have a disability and require reasonable classroom accommodations, please see me after class or make an appointment during office hours. If you plan to request accommodations for a disability, please register with the Office of Disability Services in Room 118, Powell Hall, phone number 912-260-4435. Also, if you find that any content in this course is inaccessible because of your disability, please contact me as soon as possible.

Counseling Services are confidential and available upon request. If you would like to schedule a session, referral forms are located online or outside the counselor's office. Please complete and submit the referral form to the counselor. Do not submit by email. Once you have submitted your form you will be contacted by phone to set up an appointment. The Counselor's Office is located on the Douglas Campus in Powell Hall, Room 119, phone number 912.260.4438, or Waycross Campus in the Dye Building, Room 130, phone number 912.449.7593.

STEM Center

The STEM (Science, Technology, Engineering, and Mathematics) Center is located in Stubbs 125 and is open Monday-Thursday from 1PM to 5PM. The STEM Center is a resource center that fosters independent learning to help students achieve their academic goals. Resources include, but are not limited to: Laptops, desktop computers, printing for STEM majors, SAT/ACT practice tests, CLEP practice tests, NCLEX practices tests, PCAT practice tests, study packets, free calculator rental, study groups, textbooks, and much more! Any question is welcome in the STEM Center!

Definition of Plagiarism from SGC Student Handbook

Definition of Plagiarism - South Georgia College follows the Modern Language Association's definition of "plagiarism": Derived from the Latin word *plagiarius* ("kidnapper"), plagiarism refers to a form of cheating that has been defined as "the false assumption of authorship: the wrongful act of taking the product of another person's mind, and presenting it as one's own" (Alexander Lindey, *Plagiarism and Originality*[New York: Harper, 1952 2). Plagiarism involves two kinds of wrongdoing. Using another person's ideas, information, or expressions without acknowledging that person's work constitutes intellectual theft. Passing off another person's ideas, information, or expressions as your own to get a better grade or gain some other advantage constitutes fraud. Plagiarism is sometimes a moral and ethical offence rather than a legal one since some instances of plagiarism fall outside the scope of copyright infringement, legal offence. Plagiarism is almost always seen as a shameful act, and plagiarists are usually regarded with pity and scorn. They are pitied because they have demonstrated their inability to develop and express their own thoughts. They are scorned because of their dishonesty and their willingness to deceive others for personal gain. (Gibaldi 66)

The act and practice of plagiarism is not only sometimes criminally prosecutable and always dishonest and shameful, but it is also intellectually lazy and deprives the plagiarist of an education. Examples of plagiarism include:

1. Any quotation, rewording, paraphrase, or summary of another person's words, thoughts, ideas, opinions, or theories without appropriate acknowledgement.*
2. The presentation in any form of another's artistic, literary, scientific, or other creative work as one's own.
3. Allowing someone else to write one's paper; copying, buying, or stealing either in part or in its entirety one's paper from another source such as a book, an article, or the Internet.

*Appropriate acknowledgement includes, but is not limited to, quotation marks around quoted material and citation appropriate to the discipline. See the APA and MLA guidelines in the Hodges' Harbrace Handbook (Glenn and Gray 552-650), available in the campus bookstore. The APA and MLA guidelines are also available in the online version of this document.

Faculty members reserve the right to add to these rules at their discretion. Any addition to the rules will be plainly stated in said faculty member's syllabus. Ignorance of these rules does not constitute innocence and is not an excuse for plagiarism.

Penalties for Plagiarism:

For each act of plagiarism, the penalty shall be imposed by the instructor. Some violations may result in additional disciplinary actions imposed by the College, including expulsion.

Gibaldi, Joseph. *MLA Handbook for Writers of Research Papers*. 6th ed. New York: MLA, 2003. 66.

Glenn, Cheryl and Loretta Gray. *Hodges' Harbrace Handbook*. 16th ed. Boston: Thomas Wadsworth, 2007. 552-650.