

PHYS-1404-002IN Solar System Spring 2022 Online

Instructor Information:

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Student hours and location:

I work remotely from my home office in Michigan.

Student hour: Fridays from 10:00 AM to 11:00 AM in my Zoom Meeting Room.

Required Textbook: There is no required textbook. All readings are freely available in the course.

Course Description: This course provides an introductory account of the Earth, Moon, planets, Sun, and other members of our solar system, including theories of their origins. The history and evolution of modern astronomy will also be discussed. A laboratory component consisting of simulations, observations, and experiments is also part of the course. Prerequisite: TSI 351 Reading or IRW 0320 grade "C" or better.

Course requirements: Students will need access to a printer and camera to complete certain lab activities.

Determination of Course Grade: Each assessment is worth a specific number of points. Below is a table which lists each type of assessment, how many are included in the course, the total number of points represented, and the percent of the final score that can be attributed to each assessment type.

Discussions (3)	15 points	4%
Practice Quiz (8)	40 points	9%
Quizzes (8)	120 points	28%
Labs (8)	80 points	18%
Midterm (1)	70 points	16%
Final (1)	100 points	24%

Grading Scale:

A	100 - 90%
В	89 - 80%
C	79 - 70%
D	69 - 60%
F	Below 60%

Fail Lab = Fail Class Syllabus Statement: The grade for this course consists of both a lecture and laboratory component. Students must earn a 70% or better in the laboratory component to successfully pass the course. Earning less than 70% in the laboratory component will result in an F for the course regardless of the lecture grade. Passing the laboratory component and failing the lecture component will not guarantee a passing grade for the course. Deviations from this policy will be at the sole discretion of the instructor.

Late Work, Make-Up, and Extra-Credit Policy: All assignments should be submitted by 11:59 pm on the date that they are assigned. Late work will be accepted with a 10% penalty for each week that it is late. There are no extra credit opportunities available in this course.

Attendance Policy: Attendance in this online course is based entirely on the completion of assignments. Simply logging in to the course or reviewing the course content does not constitute attendance. Please be sure you complete your assignments on or near the due date to avoid penalties for extended absences, up to and including being withdrawn from the course.

Communicating with your instructor: Email is the preferred method of communication for our course. Your professor will respond to all email inquiries within 24 hours, Monday - Friday, excluding holidays. ALL electronic communication with the instructor must be through your COM email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means.

Student Learner Outcome	Maps to Core Objective	Assessed via this Assignment
1. Demonstrate knowledge of	Critical Thinking Skills	
our place in the universe	Students will demonstrate	Chapter quizzes
and how astronomy	creative thinking, innovation,	
applies to us, astronomical	and the ability to analyze,	
terminology, our moon's	evaluate, and synthesize	
phases, and lunar and solar	information.	
eclipses; the origins of		
modern astronomy, gravity		
and how it affects		
planetary motion, and light		
and the use of telescopes		
in astronomy; the origin of		
our solar system and		
Earth; terrestrial planets;		

	gas giants and other		
	objects in our solar system.		
2.	Analyze and interpret data	Empirical/Quantitative Skills	
	from observations to draw	Manipulate and analyze	Lab activities
	valid scientific conclusions	observable facts, evidence, or	
	and communicate these	numerical data and arrive at an	
	conclusions in a clear and	informed conclusion.	
	articulate manner		
3.	Scientifically justify	Communication Skills	
	stances on modern	Develop, interpret, and	Life in the Universe Debate
	scientific controversies	express ideas through written	
	related to the solar system.	communication.	
4.	Demonstrate the ability to	Teamwork	
	work effectively with	Students will demonstrate the	Observing Project
	others to support and	ability to work effectively with	
	accomplish a shared goal	others to support and	
	while recognizing and	accomplish a shared goal,	
	respecting different	while recognizing and	
	viewpoints.	respecting different	
		viewpoints.	

Academic Dishonesty: Any incident of academic dishonesty will be dealt with in accordance with college policy and the Student Handbook. Academic dishonesty – such as cheating on exams is an extremely serious offense and will result in a grade of zero on that exam and the student will be referred to the Office of Student Conduct for the appropriate disciplinary action.

This online course is considered "open book." You may use any resources from the course as you complete the practice quizzes, chapter quizzes, tests, and final exam. You should not, however, consult any other person or website while completing an assessment in our course (i.e. "Googling" answers to quizzes, tests, or the final is considered cheating).

Student Concerns: If you have any questions or concerns about any aspect of this course, please contact me using the contact information previously provided. If, after discussing your concern with me, you continue to have questions, please contact my supervisor, Sheena Abernathy, the Science Department Chair at 409-933-8330 or sabernathy@com.edu.

Course outline:

Chapter	Assignments	Due Date
Read Me First	Syllabus QuizA little about yourself	Thu, Jan 20

Chapter 1 The Night Sky	- Practice 1.1 - Lab 1 - Quiz 1	Mon, Jan 24
Chapter 2 Motions in the Sky	Practice 2.1DiscussionLab 2Quiz 2	Mon, Feb 7
Chapter 3 Early Astronomers	- Practice 3.1 - Practice 3.2 - Lab 3 - Quiz 3	Mon, Feb 21
Chapter 4 The Renaissance	- Practice 4.1 - Lab 4 - Quiz 4	Mon, Mar 7
Midterm	- Midterm Exam	Fri, Mar 11
Chapter 5 Mercury, Venus, Earth	- Practice 5.1 - Lab 5 - Quiz 5	Mon, Mar 21
Chapter 6 Mars	Practice 6.1Lab 6Quiz 6	Mon, Apr 4
Chapter 7 Distant Worlds	- Practice 7.1 - Lab 7 - Quiz 7	Mon, Apr 18
Chapter 8 Life in the Universe	- Discussion - Lab 8 - Quiz 8	Mon, May 2
Final Exam	- Final Exam	Wed, May 11

Institutional Policies and Guidelines

Grade Appeal Process: Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook. https://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.pdf. An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor's professional judgment of the quality of the student's work and performance is also not an admissible basis for a grade appeal. https://build.com.edu/uploads/sitecontent/files/student-services/Student_Handbook_2019-2020v5.pdf

Academic Success & Support Services: College of the Mainland is committed to providing students the necessary support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

ADA Statement: Any student with a documented disability needing academic accommodations is requested to contact Holly Bankston at 409-933-8520 or hbankston@com.edu. The Office of Services for Students with Disabilities is located in the Student Success Center.

Counseling Statement: Any student needing counseling services is requested to please contact Holly Bankston in the student success center at 409-933-8520 or hbankston@com.edu. Counseling services are available on campus in the student center for free and students can also email counseling@com.edu to set up their appointment. Appointments are strongly encouraged; however, some concerns may be addressed on a walk-in basis.

Textbook Purchasing Statement: A student attending College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Withdrawal Policy: Students may withdraw from this course for any reason prior to the last eligible day for a "W" grade. Before withdrawing students should speak with the instructor and consult an advisor. Students are permitted to withdraw only six times during their college career by state law. The last date to withdraw from a course is listed in the college academic calendar, found here: http://coursecatalog.com.edu/general-information/academic-calendar/.

 \mathbf{F}_{N} **Grading:** The F_{N} grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The F_{N} grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the F_{N} grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an F_{N} grade.

Early Alert Program: The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer students to the program throughout the semester if they are having difficulty completing assignments or have poor attendance. If you are referred to the Early Alert Program

you will be contacted by someone in the Student Success Center who will schedule a meeting with you to see what assistance they can offer in order for you to meet your academic goals.

COVID-19 Statement: All students, faculty, and staff are expected to familiarize themselves with materials and information contained on the College of the Mainland's Coronavirus Information site at www.com.edu/coronavirus. In compliance with Governor Abbott's May 18
Executive Order, face coverings/masks will no longer be required on COM campus. Protocols and college signage are being updated. We will no longer enforce any COM protocol that requires face coverings. We continue to encourage all members of the COM community to distance when possible, use hygiene measures, and get vaccinated to protect against COVID-19. Please visit com.edu/coronavirus for future updates.