



Solar System – PHYS 1304 Online

Course Syllabus: Fall 2022

“Northeast Texas Community College exists to provide personal, dynamic learning experiences empowering students to succeed.”

Instructor: Dale Loughmiller

Office: Math Science Building

Phone: (903) 784-7832

Email: dloughmiller@ntcc.edu

Office Hours	Online
	Anytime via E-Mail/Blackboard Messages

This syllabus serves as the documentation for all course policies and requirements, assignments, and instructor/student responsibilities.

Information relative to the delivery of the content contained in this syllabus is subject to change. Should that happen, the student will be notified.

Course Description: This course is the study of the sun and other bodies in our solar system, including the origin of our solar system. Three hours college credit.

Prerequisite(s): TSI Complete Status

Student Learning Outcomes:

1304.1 Recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry used in modern astrophysics.

1304.2 Communicate observations and interpretations clearly through written communication.

1304.3 Use basic laws of astronomy to solve assigned tasks.

1304.4 Translate, interpret, and extrapolate scientific theory governing the formation and evolution of solar system.

1304.5 Use simple astronomy laboratory techniques to collect, manipulate, analyze, and draw conclusions from data representing physical phenomenon while working individually and in teams.

Core Curriculum Purpose and Objectives:

Through the core curriculum, students will gain a foundation of knowledge of human cultures and the physical and natural world; develop principles of personal and social responsibility for living in a diverse world; and advance intellectual and practical skills that are essential for all learning.

Courses in the foundation area of mathematics focus on quantitative literacy in logic, patterns, and relationships. In addition, these courses involve the understanding of key mathematical concepts and the application of appropriate quantitative tools to everyday experience.

Program Student Learning Outcomes:

Critical Thinking Skills

CT.1 Students will demonstrate the ability to 1) analyze complex issues, 2) synthesize information, and 3) evaluate the logic, validity, and relevance of data.

Communication Skills

CS.1 Students will effectively develop, interpret and express ideas through written communication.

Empirical and Quantitative Skills

EQS.1 Students will manipulate numerical data or observable facts by organizing and converting relevant information into mathematical or empirical form

EQS.2 Students will analyze numerical data or observable facts by processing information with correct calculations, explicit notations, and appropriate technology.

EQS.3 Students will draw informed conclusions from numerical data or observable facts that are accurate, complete, and relevant to the investigation.

Teamwork

TW.2 Students will work with others to support and accomplish a shared goal.

Evaluation/Grading Policy:

Reading quizzes will represent 20% of your grade and Exercises will count 20%. Some Starry Night assignments will be counted as extra credit. This can be seen in the description of the assignment, or in the Gradebook (the assignment points will show a /0). Discussion assignments count a total of 20%. There will be a four tests, including a Midterm and Final Exam. Each test is worth 15% of your final grade. The letter grading system is:

A	(90% - 100%)
B	(80% - 89%)
C	(70% - 79%)
D	(60% - 69%)
F	(< 60%)

Tests / Exams:

Test 1: Chapters 1-4

MIDTERM EXAM: Chapters 1-7

Test 3: Chapters 8-11

FINAL EXAM: Chapters 8-14

**If a higher score is achieved on the Midterm or Final exam, the score will override the test immediately preceding it.

Required Instructional Materials:

P. Braganca. *Starry Night College Textbook Edition*. Simulation Curriculum.

Publisher: Simulation Curriculum

ISBN Number: 978-1-7330225-6-9

Optional Instructional Materials: None

Minimum Technology Requirements: Computer Access/Internet Access, Scientific calculator

Required Computer Literacy Skills: You will need access to Blackboard and learn.simcur.com to complete all assignments and tests.

Course Structure and Overview:

Students will be responsible for completing the reading assignments listed in the syllabus schedule to perform well on the reading quizzes and exams. Discussion assignments are made to assist in critical thinking and connecting individual facts to make a more complete concept.

Communications: Email will be responded to within 24 hours IF SENT SUNDAY-THURSDAY. Any information that I send out will be done in class, via Blackboard, or via NTCC email. I will NOT email sensitive information to a non-NTCC address.

Institutional/Course Policy: Late work will not be accepted without prior approval by the instructor. Students and instructor are expected to treat each other with respect in all communication (email, phone call, and discussion board).

Alternate Operations During Campus Closure and/or Alternate Course Delivery Requirements

In the event of an emergency or announced campus closure due to a natural disaster or pandemic, it may be necessary for Northeast Texas Community College to move to altered operations. During this time, Northeast Texas Community College may opt to continue delivery of instruction through methods that include, but are not limited to, online through the Blackboard Learning Management System, online conferencing, email messaging, and/or an alternate schedule. It is the responsibility of the student to monitor NTCC's website (<http://www.ntcc.edu/>) for instructions about continuing courses remotely, Blackboard for each class for course-specific communication, and NTCC email for important general information.

Additionally, there may be instances where a course may not be able to be continued in the same delivery format as it originates (face-to-face, fully online, live remote, or hybrid). Should this be the case, every effort will be made to continue instruction in an alternative delivery format. Students will be informed of any changes of this nature through email messaging and/or the Blackboard course site.

NTCC Academic Honesty/Ethics Statement:

NTCC upholds the highest standards of academic integrity. The college expects all students to engage in their academic pursuits in an honest manner that is beyond reproach using their intellect and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. This course will follow the NTCC Academic Honesty and Academic Ethics policies stated in the Student Handbook. Refer to the student handbook for more information on these subjects.

ADA Statement:

It is the policy of NTCC to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to request accommodations. An appointment can be made with the Academic Advisor/Coordinator of Special Populations located in Student Services and can be reached at 903-434-8264. For more information and to obtain a copy of the Request for Accommodations, please refer to the special populations page on the NTCC website.

Family Educational Rights and Privacy Act (FERPA):

The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.

Tentative Course Timeline (*note* instructor reserves the right to adjust this timeline at any point in the term):

Timing	Chapters	Test
Week 1	Chapters 1-3	
Week 2	Chapters 4-6	Test 1 (Chapters 1-4) 9/19 – 9/25
Week 3	Chapter 7-9	Midterm Exam available 10/17 – 10/23
Week 4	Chapters 10-12	Test 3 (Chapters 8-11) 11/7 – 11/13
Week 5	Chapters 13 & 14	Final Exam available 11/28 – 12/7