



# Physical Science I Lab – PHYS 1115 (Face-to-Face)

Course Syllabus: Spring 2020

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

**Instructor: Mr Mark Ellermann II**

**Office:** MS117

**Phone:** 903-434-8297

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Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
	9:00 – 9:30 4:30 – 6:00	4:30 – 6:00	9:00 – 9:30 1:30 – 6:00	4:30 – 6:00	By appointment	1:30 – 6:00 Mon – Thurs

***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 emphasizes scientific principles that are taught at a non-science major level. Basic concepts are presented in physics and astronomy. Each topic is discussed in the context of everyday life.

Lecture/Lab/Clinical: Three hours of lab each week for a total of 1 credit hours.

Prerequisite: MATH 0305 or equivalent, or an appropriate placement score

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## Student Learning Outcomes:

Upon successful completion of this course, students should (1) understand simple qualitative concepts, and (2) solve algebraic problems of physics and astronomy relating to:

- 1115.1) Linear motion (displacement, velocity, acceleration, force, and Newton's Laws).
- 1115.2) Energy, work, power, and the Law of Conservation of Energy.
- 1115.3) Momentum and the Law of Conservation of Momentum.
- 1115.4) Heat and thermodynamics
- 1115.5) Electricity and Magnetism
- 1115.6) Electromagnetic (transverse) waves and sound (longitudinal) waves.
- 1115.7) The solar system, stars, and universe.

**Evaluation/Grading Policy:**

Attendance will count for 25% of your total average. You are expected to be prompt and ready to begin lab at the appointed time. The labs themselves will count for 50% of the grade, and the exams (combined) will count for the final 25% of the grade. The letter grading system is:

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

**Required Instructional Materials:** *An Introduction to Physical Science 12 & 13e* by Shipman

**Optional Instructional Materials:** N/A

**Minimum Technology Requirements:**

You will need a scientific calculator or graphing calculator for this class. A TI-Nspire CX is recommended but not required.

**Required Computer Literacy Skills:**

N/A

**Course Structure and Overview:****Communications:**

Email will be responded to within 24 hours IF SENT SUNDAY-THURSDAY. Due to the lack of internet availability at my home, I cannot guarantee responses over the weekend, though I will do my best. You can also call my office during office hours if you need to speak with me but can't make it to campus. However, I prefer face-to-face discussions, especially if you have a question about a homework problem. Any information that I send out will be done in class, via Blackboard, or via NTCC email. I will NOT email sensitive information to email addresses that are not "@ntcc.edu".

**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 and out of the classroom. Prompt attendance is expected for all class meetings. Missing lab means missing discussion and important notes. Missing or being late to lab results in a 0 for that day. Students found being consistently inattentive will be asked to leave.

**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 make adjustments to this timeline at any point in the term):**

**Lab Schedule**

Week	Lab Topic	Key Dates
1	Lab Safety/Experiments/Data Collection/Graphing	
2	Motion	
3	Energy	
4	Velocity	
5	Momentum	
6	Work and Power	
7	<b>Exam 1</b>	<b>3/2</b>
8	Heat and Temperature	
9	Wave Motions and Sound	
10	Electricity	
11	Magnetism	
12	The Universe	
13	The Solar System	
14	<b>Exam 2</b>	<b>5/4</b>
15		

*\* This calendar will be adjusted to the needs of the course. Changes will be based on the course progress. The in-class exam dates could be moved one or two days up or down. The Final Exam date is fixed and will not change.*