



## Physical Science I Lab – PHYS 1115

### Course Syllabus: Fall 2018

“Northeast Texas Community College exists to provide responsible, exemplary learning opportunities.”

#### Dr. James K. Archer

Professor Emeritus

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Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
		2:45 – 3:00		2:45 – 3:00		

*The information contained in this syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.*

**Catalog 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

**Required Textbook(s):** None

**Recommended Reading(s):** *An Introduction to Physical Science 12 & 13e* by Shipman

**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.

## 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.

## 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>10/11/17</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>11/29/17</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.*

## 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:

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

## Other Course Requirements

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

## Student Responsibilities/Expectations:

Regular and punctual attendance at all scheduled classes and labs is expected. There will be no make-up assignments.

**NTCC Academic Honesty Statement:**

"Students are expected to complete course work in an honest manner, using their intellects and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. NTCC upholds the highest standards of academic integrity. This course will follow the NTCC Academic Honesty policy stated in the Student Handbook."

**Academic Ethics**

The college expects all students to engage in academic pursuits in a manner that is beyond reproach. Students are expected to maintain complete honesty and integrity in their academic pursuit. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. Refer to the student handbook for more information on this subject.

**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 Shannin Garrett, Academic Advisor/Coordinator of Special Populations located in the College Connection. She can be reached at 903-434-8218. For more information and to obtain a copy of the Request for Accommodations, please refer to the [NTCC website – Special Populations](#).

**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.

**6 Drop Rule:** "Students who enrolled in Texas public institutions of higher education as first-time college students during the Fall 2007 term or later are subject to section 51.907 of the Texas Education Code, which states that an institution of higher education may not permit a student to drop (withdraw with a grade of "W") from more than six courses. This six-course limit includes courses that a transfer student has previously dropped at other Texas public institutions of higher education if they fall under the law. Students should be sure they fully understand this drop limit before they drop a course. Please visit the admissions office or counseling/advising center for additional information and assistance."

**Other Course Policies:**

There will be no cell phone usage in the classroom unless instructor-guided. One warning for cell phone use will be issued, any further use will result in removal from class.

**Campus Safety:** Northeast Texas Community College (NTCC) is committed to maintaining the safety of the students, faculty, staff, and guests while visiting any of our campuses. See NTCC's website for details and to receive emergency notifications automatically by phone. In the event of an emergency contact NTCC Police at 903-434-8127.