

# Tentative Syllabus for Physics 1401

## College Physics I

### Spring 2018

- Catalog Description:** College Physics. Four semester hours (3 lecture, 1 lab). Mechanics and heat; including one two-hour laboratory period per week
- Supplemental Description:** College physics is an introductory physics course utilizing mathematics at the college algebra level and covering the topics of motion, forces, energy, momentum, mass, gravity, and other topics typically referred to as mechanics. This course is typically taken by biology and pre-med majors or other allied science areas that do not require calculus based physics.
- Textbook:** Cutnell & Johnson Physics  
David Young and Shane Stadler  
Wiley, 10 e, 2015 ISBN: 978-1-118-48689-4
- Lab Manual:** Available in the book store
- Lecture Time and Place:** MWF 8-8:50 AM Room STC-122
- Labs, time, location:**
- |             |   |          |              |
|-------------|---|----------|--------------|
| Section 01L | W | 12:00 PM | Room STC-107 |
| Section 01L | T | 12:00 PM | Room STC-107 |
| Section 02L | T | 12:00 PM | Room STC-107 |
| Section 03L | W | 12:00 PM | Room STC-107 |
| Section 04L | M | 12:00 PM | Room STC-107 |
- Instructor:** Dr. A. R. Chourasia  
Office: STC-113 (STC-232)  
Phone: 886-5485; Fax: 886-5480 (886-5491)  
e-mail: [Anil.Chourasia@tamuc.edu](mailto:Anil.Chourasia@tamuc.edu)
- Office Hours:** 2 – 4 pm OR by appointment
- Goals of the Course:** Students will gain qualitative knowledge of classical mechanics, will be also able to work standard quantitative physics problems on the topics of the course. Students will verify, and explore many of these concepts in the laboratory. Laboratory instruction will consist of taking measurements, interacting with computer simulations, analyzing data and writing brief reports describing the experiments.

## Grading Procedure and Scale:

**Lab Grade:** The laboratory grade counts 25% of the total class grade. The lab grading procedure will be discussed in the lab.

**You must pass the lab to pass this course**

**Lecture Grade:** The lecture portion of the grade is determined from attendance, homework, exams, quizzes, and the final exam as outlined below:

- Attendance & Homework 15 %  
(Late Homework penalty 10% each class day)
- Quiz after each chapter  
All quizzes combined 15 %  
(Lowest will be dropped)
- Three Exams 10 % each
- Final exam (comprehensive) 15 %

90 and above:	A
80 and above but less than 90:	B
70 and above but less than 80:	C
60 and above but less than 70:	D
Less than 60:	F

Extra Credit (FCNC) 10%

Missing an exam without first making arrangements for make-up with the instructor (excused absence cleared before the exam) will automatically result in the failing grade. Missing other class periods will result in penalties as described under the attendance section below.

Any decision to curve the grade will be taken at the end of the semester.

**Five unexcused absences will automatically result in a failing grade.**

### Lecture and Test (Tentative)

Chapter 1	Introduction and Mathematical Concepts
Chapter 2	Kinematics in One Dimension
Chapter 3	Kinematics in Two Dimensions
Chapter 4	Forces and Newton's Laws of Motion
Chapter 5	Dynamics of Uniform Circular Motion
Chapter 6	Work and Energy
Chapter 7	Impulse and Momentum
Chapter 8	Rotational Kinematics
Chapter 9	Rotational Dynamics

**Final Exam is on Monday, May 7 at 8:00 AM**

**Attendance and Tardiness:** Students are expected to be on time and present for all class meetings. Excused absences can be arranged prior to the class period being missed for appropriate activities as determined by the instructor. If an emergency results in an absence, the student should contact the instructor as soon as possible informing the instructor of the emergency and inquiring about ways to make up the missed class. The instructor will make judgements on how to handle the situation. Possible reasons for an excused absence are listed in the “ Student’s Guidebook” under class attendance policy.

**Classroom Behavior:** Disorderly conduct which interferes with the normal classroom atmosphere will not be tolerated. The classroom instructor is the judge of such behavior and may instruct a disorderly student to leave the room with an unexcused absence or in more serious situations a student may be removed from the class with a failing grade.

**Cheating and other Breaches of Academic Conduct:** Academic cheating, plagiarism, and other forms of academic misconduct may result in removal of the student from class with a failing grade or may in extreme cases result in suspension or expulsion from the University as described in the “Code of Student Conduct” section of the “ Student’s Guidebook”.

**Students with Disabilities:** The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

**Office of Student Disability Resources and Services**  
**Texas A&M University-Commerce**  
**Gee Library**  
**Room 132**  
**Phone (903) 886-5150 or (903) 886-5835**  
**Fax (903) 468-8148**  
[StudentDisabilityServices@tamuc.edu](mailto:StudentDisabilityServices@tamuc.edu)

**Evaluation of Instruction:** Students will be given opportunities to evaluate instruction near the end of the semester. The physics department utilizes a scantron graded questionnaire with statements regarding various elements of instruction and in addition utilizes an open ended form where students can make comments on all elements of the classroom. These comments are given to the instructor and department head soon after the grades are recorded. If students have concerns about the classroom experience during the semester they should inform the instructor of those concerns and failing a

satisfactory response may, as a last resort, contact the physics department head with those concerns.

A&M-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer to (<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>) and/or consult your event organizer). Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.