



Course Syllabus – OnRamps Physics 1

Instructor

Michael Strange

Phone

915.236.2500

Email

mwstrang@episd.org

Remind Code

@47aa46

Location

Room 402

Office Hours

Tutoring

Daily, before and after school

Conferences

By Appointment

Before or after school or

during 8th period (2:30-3:55

on B days)

Course Overview

OnRamps Physics 1 – Mechanics, Heat, and Sound is an algebra-based introductory course in mechanics. This course will cover the fundamental concepts of the topics described using relatively simple mathematics.

This is a dual enrollment course with the University of Texas at Austin, meaning that students are simultaneously enrolled in a high school and university course. This means that students are eligible to earn credit at both institutions. Dual enrollment differs from dual credit in that the university credit is granted by the UT professor while I am responsible for the high school side.

Text

OpenStax College Physics. <https://openstax.org/details/college-physics>

Course Materials

Course materials will be available through multiple online platforms including Canvas, Quest, and Learning Catalytics which include homework and class assignments, instructional videos, reviews, assessments and other resources. More detail on these platforms is available in the college syllabus.

Class Supplies

1. 3 ring binder to hold handouts given during class.
2. Computer with internet access to use both at home and in class.

Class Expectations

This is a college course and as such students will be held to high expectations. While the content and work load is demanding, with the right attitude and planning everyone can succeed. In order to do well in the class:

1. Try not to miss any classes. If you must miss then check with your study group as soon as possible to get caught up. If they can't help then see me ASAP.

2. Be engaged while you are in class. Lecture will be minimal with activities revolving around student to student discussion so you must participate in order to learn. What you get out of the class depends on what you put in.
3. Get your work in on time. Deadlines are hard in college classes and late work is not accepted. Using a planner to keep track of deadlines is a great tool to help keep you on track.
4. Get help early and often. We are in this together and I am available everyday for even the simplest question. You will see that other students are in the classroom just about everyday before and after school, so don't be afraid to come in and work. You can also send me questions through Remind.

Classroom Management Plan

If a student is not meeting the classroom expectations, the following actions will be taken:

1. Verbal warning
2. Written warning
3. Loss of privileges
4. Parent conference
5. An administrative referral

Grading

Students will receive both college grades and high school grades, but these will not mirror one another. The UT professor of record is responsible for the college side while I take care of the high school side. Information on the college side grading is available in the college syllabus.

For the high school side, I will be using some of the college assignments and exams but will be adjusting them to align with high school standards. I will also use in class activities which are not college grades. Per district policy, the grading breakdown will be as follows:

Content Engagement (20%) – Grades in this category will come from those activities which are designed as learning opportunities such as Learning Catalytic sessions, in-class activities, reading quizzes, etc.

Content Understanding (40%) – Grades in this category will come from activities designed to assess your understanding of the material. This will include Quick Check quizzes, exit tickets, group problem solving, etc.

Content Mastery (40%) – Mastery of the content will be assessed by unit exams, Quest homework, as well as labs.

Course Schedule (Subject to Change) – exact dates will be announced in class

Week	Week of	Unit	Due
Week 1.1	8/12/2019	Unit 1: Mathematics and 1-D Motion	OnRamps Orientation
Week 1.2	8/19/2019		
Week 1.3	8/26/2019		
Week 1.4	9/2/2019		Quest HW 1
Week 1.5	9/9/2019		
Week 1.6	9/16/2019		Lab 1 Quest HW 2
Week 1.7	9/23/2019		Exam 1
Week 1.8	9/30/2019	Unit 2: 2-D Motion and Forces	
Week 1.9	10/7/2019		Quest HW 3 Lab 2
Week 2.1	10/14/2019		Quest HW 4
Week 2.2	10/21/2019		Exam 2
Week 2.3	10/28/2019	Unit 3: Energy	Lab 3 w/ Lab Report
Week 2.4	11/4/2019		Quest HW 5
Week 2.5	11/11/2019		Exam 3
Week 2.6	11/18/2019	Unit 4: Momentum	Lab 4
	11/25/2019		Quest HW 6
Week 2.7	12/2/2019		Exam 4 Retakes – Exams 2 and 3
Week 2.8	12/9/2019		Midterm
Week 2.9	12/16/2019	Unit 5: Circular Motion and Rotation	
Week 3.1	1/8/2020		Lab 5 Quest HW 7
Week 3.2	1/13/2020		
Week 3.3	1/20/2020		Quest HW 8 Exam 5
Week 3.4	1/27/2020	Unit 6: Solids and Fluids	Lab 6 w/ Lab Report

Week	Week of	Unit	Due
Week 3.5	2/3/2020		Quest HW 9
Week 3.6	2/10/2020		Exam 6
Week 3.7	2/17/2020	Unit 7: SHM and Waves	Lab 7
Week 3.8	2/24/2020		Exam 7 Quest HW 10
Week 3.9	3/2/2020	Unit 8: Thermodynamics	
Week 3.10	3/9/2020		
	3/16/2020		Quest HW 11
Week 4.1	3/23/2020		Exam 5 Retake
Week 4.2	3/30/2020		Exam 6 Retake Quest HW 12
Week 4.3	4/6/2020		Exam 7 Retake
Week 4.4	4/13/2020		Quest HW 13
Week 4.5	4/20/2020		
Week 4.6	4/27/2020		Spring Final
Week 4.7	5/4/2020		
Week 4.8	5/6/2020		

Getting Help

All of you are going to struggle at one point or another and it is imperative that you use the support structures that you have to get through those struggles. This includes your table group, additional study groups with friends, and additional instruction from me.

I highly recommend that you form an outside study group to work with on a regular basis and that you see me as soon as you experience any difficulty. Do not let misconceptions or misunderstandings pile up, because at some point it will be too late.

In order to help you out, I am available every day before (8:00 am) and after (until 4:45 or so) school and during lunch on most days.

In addition, I will have dedicated Quest Workshops every Tuesday and Thursday after school where we can focus on the current Quest homework set. I encourage you to attend one of these days regularly.

Course Drops

In order to drop the class a student must complete the following process per school policy:

1. Student/Teacher conference. During this time, I will listen to the student's concerns and try to determine a plan that will allow the student to complete the course successfully.
2. Parent/Student/Teacher conference. We will discuss the concerns of the student as well as my assessment of the student's potential to succeed in the course. In addition, we will discuss any previous action plan and make modifications as needed.
3. Administrator approval. The assistant principal in charge of the advanced academics program will review the request and possibly meet with the student and/or parents before approving the drop.

Academic Integrity

Science department expectations for academic integrity will follow EPISD policy as stated in EIA Local policy manual.

A student who receives a failing grade (CH) due to academic dishonesty shall not be allowed to redo assignments or retake a test. At the discretion of the teacher, a discipline referral may be issued.

Actions constituting academic dishonesty include, but are not limited to, submitting others work as your own, copying work from another student, plagiarism, cheating, fabrication, inappropriate use of technology, falsifying documents, and allowing others to violate the academic integrity policy. Students have the responsibility to submit coursework that is the result of their own thought, research, or self-expression.

In addition, Academic Integrity violations will be reported to the University of Texas at Austin for investigation.