

Lecture location: anywhere
Lecture time: any time
Instructor: Dr. Sarah Sojka
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Office: Main 106D

Office hours:

Monday 10-11 a.m.
Tuesday 2-3 p.m.
Wednesday 6-7 p.m.
Thursday 10-11 a.m.
Friday 2-3 p.m.

Additional office hours are available by appointment. Office hours will be conducted through Zoom. Use the link on the course Moodle page to log-in. You are welcome to call, text or e-mail at any time, but office hours are the only time I promise to be available.

Required text

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

You will also need to sign up for ExpertTA.

Registration Link <http://goeta.link/USA48VA-32FD9A-1N7>

Student Class Code: **USA48VA-32FD9A-1N7**

I. Course goals

This course is the first half of an algebra-based physics class. It covers mechanics, forces, energy conservation, and rotational motion. This class is appropriate for beginning science majors, students with a physics concentration, pre-medical students and general education students. Each class will be focused on describing how a specific phenomenon works. We will use a lot of demos and available online simulations (<http://phet.colorado.edu/en/simulations/category/physics>). Understanding physics can take some time and you will need to put in a lot of time outside of class to understand the material.

II. Policies

The Honor Code: All students are expected to conduct themselves with integrity. You are encouraged to study and work on the homework together, but all final written assignments (homework and exams) must be your own work! Please note that all tests and written assignments in this class are pledged work under the Randolph College Honor Code. Please note that it is a violation of the honor code in this course to look at exams and homework assignments from other offerings of this course, whether concurrent or past, regardless of the instructor of the course. If you are not familiar with the Randolph College Honor Code, you can obtain more information at <https://www.randolphcollege.edu/academics/honor-code/>. If you still have questions, I will be happy to discuss this with you.

Plagiarism: When writing, if you use someone else's words, unique thoughts, or general sentence structure without crediting the source, you are committing plagiarism, which can best be described as a form of academic theft. Plagiarism is an honor violation and can be avoided by properly acknowledging

the sources you consult using APA style. **Internet sources are not exempt. I expect you to be familiar with the College's policies on plagiarism.** An excerpt of the Student Handbook, at <http://www.randolphcollege.edu/studenthandbook>, defines plagiarism and provides examples of ways to avoid it. You can also find resources on plagiarism at <http://owl.english.purdue.edu/owl/resource/563/01/>.

Attendance: Your attendance in this class will be watching the online videos and working through the sample problems. You can do this at any time that you like but assignments for Monday, Tuesday and Wednesday must be completed by 11:59 pm on Wednesday and assignments for Thursday and Friday must be completed by 11:59 pm on Saturday. Assignments include homework on ExpertTA, watching lecture videos and working sample problems and demonstrations on Moodle. A list of tasks will be provided each week.

If you have a disability, an illness, or injury that keeps you from learning to the best of your ability, there are services available that may be helpful. To learn more about these services, go to the “Just for Students” link on your Moodle Classroom Help menu or contact the Coordinator of Disability Services, in the Academic Services Center, 4th floor, Lipscomb Library.

III. Grading

Homework will be assigned daily, except on the days of the exams. You are encouraged to work together on the homework, but the final product must be your own work! All homework is to be submitted on-line by the due date (Wednesdays and Saturdays). Your homework grade will be reduced by 10% for each day late. Homework problems will not be solved in class. You are welcome to contact me if you have questions. I also encourage you to use the Moodle news forums to ask questions of me and your peers. There will be three tests and the material will build throughout the semester.

20% Homework
15% Participation
20% Exam 1
20% Exam 2
20% Exam 3
5% Video or “in-person” problems

Participation is defined as completing all of the tasks presented in Moodle (15%). You should mark your progress using the Moodle progress bar to document your work in the class.

IV. Policies and procedures for course enrollment and payment

Online registration and payment **MUST** occur prior to the first class meeting. The drop period is 3 days to have the course not become a part of your student record and the withdrawal period ends on the 7th day. After this you cannot withdraw unless under medical or mitigating circumstances, which must be documented. **To drop or withdraw, email the course instructor who will forward your email to the Registrar. The date of your email will be the date used for the course drop/withdrawal. Payment:** Once you register, you will be billed by Randolph College – the first billing may be as late as May even if you register earlier. Summer tuition for online course is \$450/credit hour and is due prior to the first day of the course. Each lecture course is 3 credit hours, and each lab is 1 credit hour. There is a \$30 lab fee per lab course. If you drop the course before the first day of either class, you get a 100% refund for that class. If you drop the course during the first week, you will be

reimbursed 90% of your payment. If you drop the course sometime in the second week, you will be reimbursed 50% of your payment. Beyond the second week of a given course, you will not be reimbursed for that course if you drop it.

V. Course schedule

Week 1	Intro, motion in 1 dimension
Week 2	Vectors, 2D motion, Newton's First law
Week 3	Finish Newton's laws, Forces and Intro to Work
Week 4	Work and Potential Energy, Momentum
Week 5	Rotation

Exam Dates

Exam 1	June 8
Exam 2	June 20
Exam 3	July 2