Lecture location: N/A Lecture time: N/A Instructor: Dr. Sarah Sojka Email: ssojka@randolphcollege.edu Phone: 434-947- 8566 Cell Phone: 434-242-0298 Office: Main 106D

Office hours:

Monday 10-11 a.m. Tuesday 2-3 p.m. Wednesday 5-6 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 GoToMeeting. Use the link on the course Moodle page to log-in. You are welcome to call, text or e-mail at any time.

Recommended text

<u>Fundamentals of Physics</u>, 8/E Halliday, Resnick, and Walker Published by Wiley

You will also need to sign up for ExpertTA. You will need to sign up again and pay for the second session even if you were in PHYS 105.

Registration Link https://www.theexpertta.com/registration

Student Class Code: USA48VA-E4AC80-1HE

I. Course goals

This course is the second half of an algebra-based physics class. It covers equilibrium, fluids, waves and sound, electricity, magnetism and optics. 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 Sunday. 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 and will sometimes include interactive online activities.

Students with disabilities requiring special consideration

Please provide me with the appropriate letter from the Academic Services Center (ASC) indicating what accommodations you require, and I will make every effort to meet your needs. Please consult with Tina Barnes ((947-8132, <u>tbarnes@randolphcollege.edu</u>) in the LRC if you need more information.

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 Sundays). Your homework grade will be reduced by 10% for one day delay, 20% for two days delay, and 30% for more than two days delay. Homework problems will not be solved in class. You are welcome to contact with me if you have questions. There will be three tests and the material will build throughout the semester.

20% Homework20% Participation20% Exam 120% Exam 220% Exam 3

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

V. Course schedule

Week 1	Equilibrium and fluids
Week 2	Oscillations and waves
Week 3	Electricity
Week 4	Electricity continued, Magnetism
Week 5	Optics

Exam Dates

Exam 1	July 21
Exam 2	August 2
Exam 3	August 11