1 General information:

Instructor: K. V. Shajesh
Office: Neckers 491, Tel.: +1-618-453-5212.
Email: shajesh@siu.edu
Web-page: http://www.physics.siu.edu/~shajesh

Class meetings: MWF 9:00-9:50 AM, in Neckers 440.
Office hours: MWF 10:00-11:30 AM; TR 11:00-11:45 AM.

2 Prerequisites:

A strong aptitude for basic mathematical techniques will be necessary for the course. The following is a partial list of the mathematical techniques that will be used in the course: algebra, vector algebra, analytic geometry, differential and integral calculus.

Completing MATH 150 with a grade C or better is an official prerequisite for the course.

3 Course description

The course will broadly cover topics on Mechanics, Oscillations and Mechanical waves, and Thermodynamics. These are covered in the first twenty two chapters of the textbook. We will cover a fair amount in the limited time available.

Textbook

Physics: for Scientists and Engineers by Raymond A. Serway and John W. Jewett, Jr.

Web-page

SIU Online, powered by Desire2Learn, at

https://online.siu.edu,
a password protected site, will be used to post grades and necessary materials for the course. Homework will be administered by an online service at

http://www.webassign.net,

which requires the student to register and make a payment. The class key needed to enroll with webassign for this course is

siuc 1377 8436.

4 Course work

Evaluation

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>30 %</td>
</tr>
<tr>
<td>Midterm Exams</td>
<td>50 %</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20 %</td>
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</tbody>
</table>
Homework

Homework will be assigned regularly, at http://www.webassign.net. Homework will be based on the concepts covered in the classroom and will mostly be problems from the textbook. Generally, mastering the concepts requires the student to study and practice the corresponding content in the textbook.

The web based system allows students to take multiple trials to get the right answer and gives instant feedback on the correctness of their final answer. Note that the web based software does not grade the detailed steps of your work, instead it only checks your final answer. Nevertheless, students will be expected to show detailed steps of their thought process in quizzes and exams. Further, answers should have appropriate units and significant figures.

Students are encouraged to discuss the homework with their classmates and everyone around them. Since the web based system is designed such that each student gets a slightly different version of the question, it reduces the chance of outright cheating.

Exams

Four examinations (including the final exam) will be administered.

<table>
<thead>
<tr>
<th>Exam</th>
<th>Date</th>
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<tbody>
<tr>
<td>Midterm Exam 01</td>
<td>September 16 (Friday, in class)</td>
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<tr>
<td>Midterm Exam 02</td>
<td>October 14 (Friday, in class)</td>
</tr>
<tr>
<td>Midterm Exam 03</td>
<td>November 14 (Monday, in class)</td>
</tr>
<tr>
<td>Final Exam</td>
<td>December 16 (Friday, 08:00-10:00 AM)</td>
</tr>
</tbody>
</table>

The Midterm Exams will assess you on concepts covered in lectures, textbook material, and homework. All the Midterm Exams will be cumulative, but you are advised to concentrate more on topics covered in the later part of the semester. There will be no make up exams. If your absence from the exam is properly authorized with an appropriate “University form for Excused Absences”, which usually needs to be given to the instructor before the absence, your score in the Final Exam will be used to cover for the missed exam.

Grading

The grading involves 30% of homework and 70% of exam. Generally, it is significantly easier to score in homework in comparison to exams. In the past, seventy percent of the students scored more than ninety percent in homework, while only ten percent scored more than ninety percent in exams.

The following is the grading scheme for the course. Here x is the final score in percent. The final column is a recommendation of a possible breakup that one can aim for the corresponding grade.

\[
\begin{align*}
85 \leq x < 100 & \quad A \quad (97\% \text{ in homework, } 80\% \text{ in exams}) \\
72 \leq x < 85 & \quad B \quad (90\% \text{ in homework, } 65\% \text{ in exams}) \\
60 \leq x < 72 & \quad C \quad (80\% \text{ in homework, } 50\% \text{ in exams}) \\
40 \leq x < 60 & \quad D \\
0 \leq x < 40 & \quad F
\end{align*}
\]

If your final grade falls too close to a borderline, and if you have an average of more than seventy percent in homework, your grade will be rounded to the next integer.

5 Syllabus Attachment

The Provost Office has put together a “Syllabus Attachment” to assist the student. It lists and provides web links for many elements that are important for a student. Kindly find it appended.
IMPORTANT DATES *
Semester Class Begins: .......................................................08/22/2016
Last day to add full-term course (without Dean’s signature): 08/28/2016
Last day to withdraw from the University with a full refund: 09/02/2016
Last day to drop a full-term course for a credit/refund: ..........09/04/2016
Deadline to apply to graduate at the end of this term:.........09/16/2016
Last day to drop a full-term course (W grade, no refund): ......10/30/2016
Final examinations: ..............................................................12/12–12/16/2016
Commencement: ...............................................................12/17/2016
Note: For more detailed information on the above deadlines, please visit http://registrar.siu.edu/calendars. For add/drop dates that apply to shorter-than-full-term courses, please look at the Schedule of Classes search results at http://registrar.siu.edu/schedclass/index.php

FALL SEMESTER HOLIDAYS
Labor Day Holiday 09/05/2016
Fall Break 10/08—10/11/2016
Veterans Day Holiday 11/11/2016

WITHDRAWAL POLICY ~ Undergraduate only
Students who officially register for a session must officially withdraw from that registration in a timely manner to avoid being charged as well as receiving a failing grade for those classes. An official withdrawal must be initiated by the student, or on behalf of the student through the academic unit, and be processed by the Registrar’s office. For the proper procedures to follow when dropping courses and when withdrawing from SIU visit: http://registrar.siu.edu/students/withdrawal.php

INCOMPLETE POLICY ~ Undergraduate only
An INC grade may be assigned when, for reasons beyond their control, students engaged in passing work are unable to complete all class assignments for the course. An INC must be changed to a completed grade within one full semester (undergraduates), and one full year (graduate students), from the close of the term in which the course was taken or graduation, whichever occurs first. Should the student fail to complete the remaining course requirements within the time period designated, the incomplete will be converted to a grade of F and such grade will be computed in the student’s grade point average. For more information visit: http://registrar.siu.edu/grades/incomplete.php

REPEAT POLICY
An undergraduate student may, for the purpose of raising a grade, enroll in a course for credit more than once. For students receiving a letter grade of A, B, C, D, or F, the course repetition must occur at Southern Illinois University Carbondale. Effective for courses taken Summer 2013 or later, only the most recent (last) grade will be calculated in the overall GPA and count toward hours earned.

This policy will be applied to all transferrable credit in that only the last grade will be used to calculate grade point average. Only those courses taken at the same institution are considered repeats under this policy. See full policy at http://registrar.siu.edu/students/repeatclasses.php

GRADUATE POLICIES
Graduate policies often vary from undergraduate policies. To view the applicable policies for graduate students, please refer to the graduate catalog at http://gradschool.siu.edu/about-us/grad-catalog/

DISABILITY POLICY
Disability Support Services provides the required academic and programmatic support services to students with permanent and temporary disabilities. DSS provides centralized coordination and referral services. To utilize DSS services, students must contact DSS to open cases. The process involves interviews, reviews of student-supplied documentation, and completion of Disability Accommodation Agreements. http://disabilityservices.siu.edu/

PLAGIARISM
Student Conduct Code http://srr.siu.edu/student-conduct-code/

SAFETY AWARENESS FACTS AND EDUCATION
Title IX makes it clear that violence and harassment based on sex and gender is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here: http://safe.siu.edu

SALUKI CARES
The purpose of Saluki Cares is to develop, facilitate and coordinate a university-wide program of care and support for students in any type of distress—physical, emotional, financial, or personal. By working closely with faculty, staff, students and their families, SIU will continue to display a culture of care and demonstrate to our students and their families that they are an important part of the community. For Information on Saluki Cares: call(618) 453-1492, email siucares@siu.edu, or http://salukicares.siu.edu/

SIU’S EARLY WARNING INTERVENTION PROGRAM (EWIP)
Students enrolled in courses participating in SIU’s Early Warning Intervention Program might be contacted by University staff during a semester. More information can be found at the Core Curriculum’s Overview webpage: http://corecurriculum.siu.edu/program-overview/

EMERGENCY PROCEDURES
We ask that you become familiar with Emergency Preparedness @ SIU.
Emergency response information is available on posters in buildings on campus, on the Emergency Preparedness @ SIU website, and through text and email alerts. To register for alerts visit: http://emergency.siu.edu/

STUDENT MULTICULTURAL RESOURCE CENTER
The Student Multicultural Resource Center serves as a catalyst for inclusion, diversity and innovation. As the Center continues its work, we are here to ensure that you think, grow and succeed. We encourage you to stop by the Center, located in Grinnell Commons, to see the resources available and discover ways you can get involved on the campus. Visit us at http://inclusiveexcellence.siu.edu/

LEARNING AND SUPPORT SERVICES
Help is within reach. Learning support services offers free tutoring on campus and math labs. To find more information please visit the Center for Learning and Support Services website:
Tutoring: http://tutoring.siu.edu/
Math Labs http://math.siu.edu/courses/course-help.php

WRITING CENTER
The Writing Center offers free tutoring services to all SIU students and faculty. To find a Center or Schedule an appointment please visit: http://write.siu.edu/

AFFIRMATIVE ACTION & EQUAL OPPORTUNITY
Our office's main focus is to ensure that the university complies with federal and state equity policies and handles reporting and investigating of discrimination cases. For more information visit: http://diversity.siu.edu/

MILITARY COMMUNITY
There are complexities of being a member of the military community and also a student. Drill schedules, calls to active duty, complications with GI Bill disbursement, and other unforeseen military and veteran related developments can complicate academic life. If you are a member of the military community and in need of accommodations please visit Veterans Services at: http://veterans.siu.edu/

Additional Resources:
ADVISEMENT: http://advisement.siu.edu/
SIU ONLINE: https://online.siu.edu/
SALUKI SOLUTION FINDER: http://solutionfinder.siu.edu/
MORRIS LIBRARY HOURS: http://libguides.lib.siu.edu/hours