SYLLABUS
Physics 203A: College Physics
Instructor: April Hendley
Spring 2015

I. TIME/PLACE: Mon., Wed., and Fri. 2:00 p.m.-2:50 p.m. Neckers 440 (Lecture Hall).

II. CONTACT INFORMATION for Ms. Hendley

Office: Neckers 462
Phone: 618-453-2272
Email: ahendley@siu.edu
Office Hours: Tuesday: 3:30 pm - 4:30 pm
              Wednesday: 10:00 am - 12:00 noon
              Thursday: 3:30 pm - 4:30 pm
              Friday: 10:00 am - 12:00 noon
              Other times: By appointment.

III. REQUIRED RESOURCES

TEXTBOOK: *Physics 9th Edition by Cutnell and Johnson*

SYLLABUS: This syllabus is available for download on SIU Online.

IV. COURSE OBJECTIVES:

Main Course Objectives:
- Learn about the fundamental laws and principles of Physics, particularly those relating to mechanics, heat, and sound.
- Understand how the scientific method operates.
- Learn how to solve algebra-based physics problems.

V. COURSE STRUCTURE

Lectures:
- Lectures will be a combination PowerPoint presentations and chalkboard presentations.
- Lectures will also include demos and/or simulations on occasion.
- We will go over some examples to practice the concepts.

Home Work:

Homework will be assigned roughly once a week. Homework will be collected in class.
Late homework are not accepted because the solutions will be posted shortly after the homework are due. The lowest homework score will be dropped. Late homework will only be accepted for the documented reasons outlined in the Missed Work Policy below.
Quizzes:

There will be four short (~10 minutes) quizzes during the semester. The lowest quiz score will be dropped. Late quizzes will only be accepted for the documented reasons outlined in the Missed Work Policy below.

Midterm Exams:

There will be three full class-long exams, which will be announced roughly a week in advance, in class. You will get to drop your lowest exam grade, hence there will be NO MAKE UP EXAMS, unless your absence from the exam is properly authorized (see Missed Work Policy).

Missed Work Policy:

Valid reasons for missing homework due dates, quizzes, and exams are limited to properly documented:
- Religious Observance;
- Military Duty;
- Bereavement (only members of the immediate family);
- Official University business;
- Jury Duty or Court Appearance;
- Properly documented medical reason (Doctor’s certificate stating that the student was incapable of attending the exam; notes from the Student Health Services that the student was there at the time are not sufficient).

It is the student’s responsibility to use the appropriate University form for Excused Absences to request accommodation from the instructor in case an exam is missed. Except in cases of medical emergency, this University form needs to be given to the instructor before the absence occurs.

Final Exam:

The final exam is comprehensive.

Final Exam will be on Monday, May 11 from 2:45 p.m. to 4:45 p.m. in Neckers 440.

VI. GRADES

<table>
<thead>
<tr>
<th>Breakdown</th>
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</thead>
<tbody>
<tr>
<td>Homework</td>
<td>24 %</td>
</tr>
<tr>
<td>Quizzes</td>
<td>12 %</td>
</tr>
<tr>
<td>Midterm Exams</td>
<td>34 %</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30 %</td>
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</tbody>
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**TENTATIVE** Grade Scale:
- A: 85.0 -100
- B: 75.0 - 84.9
- C: 65.0 - 74.9
- D: 50.0 - 64.9
- F: 0 - 49.9
VII. ACADEMIC DISHONESTY IN PHYS 203A
This is to inform you of the policy regarding academic dishonesty in PHYS 203A. Any individual found cheating on any exam, quiz, or assignment will be failed in the course. The possession of any cheat-sheet during the final will be considered cheating and treated as such. Plagiarizing will be considered cheating. If another individual takes the quiz or final for you, then both will be reported for cheating. A report will be made to the proper authority for further disciplinary action including possible suspension from the university.
**TENTATIVE SCHEDULE:** We will follow this schedule as closely as possible, but the schedule is subject to change due to time considerations.

<table>
<thead>
<tr>
<th>Week of</th>
<th>Exam/Quiz</th>
<th>Chapter #</th>
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<tbody>
<tr>
<td>Jan. 19</td>
<td>1: No Class: Martin Luther King Jr. Day</td>
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<tr>
<td></td>
<td>1: Introduction, Dimensions, and Units</td>
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<td>Jan. 26</td>
<td>2: Kinematics in 1D, Trigonometry, Vectors</td>
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<tr>
<td>Feb. 2</td>
<td>Quiz 1</td>
<td>3: Kinematics in 2D</td>
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<td>Feb. 9</td>
<td>4: Forces and Newton’s Laws</td>
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<tr>
<td>Feb. 16</td>
<td>Exam 1</td>
<td>4: Forces and Newton’s Laws</td>
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<td>Feb. 23</td>
<td>5: Circular Motion</td>
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<td>Mar. 2</td>
<td>Quiz 2</td>
<td>6: Work and Energy</td>
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<tr>
<td>Mar. 9</td>
<td>All Week: No Class: Spring Break</td>
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<tr>
<td>Mar. 16</td>
<td>6: Work and Energy</td>
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<td>Mar. 23</td>
<td>Exam 2</td>
<td>7: Momentum</td>
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<td>Mar. 30</td>
<td>8: Rotational Kinematics</td>
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<td>9: Rotational Dynamics</td>
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<td>Apr. 6</td>
<td>Quiz 3</td>
<td>10: Simple Harmonic Motion and Elasticity</td>
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<td>Apr. 13</td>
<td>11: Fluids</td>
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<td>Apr. 20</td>
<td>Exam 3</td>
<td>12: Temperature and Heat</td>
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<td>13: Transfer of Heat</td>
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<td>Apr. 27</td>
<td>14: Ideal Gas Law and Kinetic Theory</td>
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<td>15: Thermodynamics</td>
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<td>May 4</td>
<td>Quiz 4</td>
<td>16: Waves and Sound</td>
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<td>17: Linear Superposition and Interference</td>
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<td></td>
<td>Review for Final Exam</td>
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<tr>
<td>May 11</td>
<td>Final Exam</td>
<td>Monday, May 11: 2:45 pm - 4:45 pm</td>
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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: [Link to SIU website]

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: (618) 453-5174, or salukicares@siu.edu, [Link to SIU website]

EMERGENCY PROCEDURES
Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. We ask that you become familiar with the SIU Emergency Response Plan and Building Emergency Response Team (BERT) program. Please reference the Building Emergency Response Protocols for Saluki attachment on the following pages. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency.

INCLUSIVE EXCELLENCE
SIU contains people from all walks of life, from many different cultures and sub-cultures, and representing all strata of society, nationalities, ethnicities, lifestyles, and affiliations. Learning from and working with people who differ is an important part of education as well as an essential preparation for any career. For more information please visit: [Link to SIU website]

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: [Link to SIU website]
Math Labs: [Link to SIU website]

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: [Link to SIU website]

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: [Link to SIU website]

Additional Resources Available:
SALUKINET: [Link to SIU website]
ADVISMENT: [Link to SIU website]
SIU ONLINE: [Link to SIU website]