Introduction to Engineering/Physics  
PHYS 1308 & PHYS 1008  
Spring 2024  

Instructor: Katie Bailey, M.Sc.  
Department: Physics, Engineering, and Astronomy  
Contact: Katie.Bailey@sfasu.edu ; (936) 468-2391  
Office: Ed & Gwen Cole STEM Building 207J  
Office Hours: TR: 1:30PM – 2:50PM in STEM 207J  
W: 12:00PM – 2:00PM via Zoom (https://sfasu.zoom.us/j/96753158318)  
or by appointment  

Class Meeting Time & Location: TR 3:00-4:40 in STEM 103  

Course Description: Introductory course in Engineering/Physics with a focus in analyzing and solving fundamental problems. Course accounts for three credit hours, including two hours of lecture and two hours of recitation per week.  

Corequisite: PHYS 1008  

Text: No required text  

Course Requirements:  
- **Homework**: will be assigned covering each lecture topic;  
- **Classwork**: collaborative group work will be completed in class;  
- **Exams**: there will be four total exams, consisting of problems similar to those worked in class and for homework. Students will have one week after homework or exams are returned to discuss any possible error in the grading. After that time no change will be made in the grade.  

Course Calendar: A more detailed calendar is available on page 2, dates are subject to change:  
- Feb. 8th: Exam 1, Algebra, Vectors, Trigonometry, Problem Solving Methods  
- Mar. 7th: Exam 2, Newton’s Laws, Kinematics (1-D & 2-D)  
- Apr. 11th: Exam 3, Work, Energy, Impulse, Momentum  
- May 9th: Final Exam: Rotational Motion (Inertia, Torque, Momentum) 1:00PM-3:00PM  

Grading Policy: Each exam including the final will be graded on a 100-point scale. Course Average will be calculated as follows:  

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<th>Component</th>
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<td><strong>EXAMS</strong></td>
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<td><strong>PORTFOLIO/PROJECTS</strong></td>
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<td><strong>HOMEWORK</strong></td>
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<td><strong>CLASSWORK</strong></td>
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<td><strong>TOTAL</strong></td>
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Course Content:
- Algebra in physics and engineering
- Trigonometry in physics and engineering
- Basic kinematics in physics and engineering
- Physical laws in physics and engineering
- This course has four hours of instruction per week. As a problem-solving course which is heavy in math content students will, on average, need to apply 2 additional hours per week per class instruction time to complete homework, study, and master the material.

Program Learning Outcomes: There are no specific program learning outcomes for the physics program addressed in this course.

Student Learning Outcomes:
By the end of the course, successful students will be able to:
- Demonstrate the ability to analyze and solve introductory physics and engineering problems.
- Demonstrate the ability to communicate analysis of problems in a professional manner.
- Exhibit the ability to work in teams effectively.

General Education Core Curriculum: This course is not included in the general education core curriculum.

Attendance Policy: If you have 3 or more unexcused absences your final grade will be reduced one letter grade. If you have 4 unexcused absences, you will receive an “F” in the course. If you are going to miss class for a university excused absence you should notify the instructor in advance. It is your responsibility to make arrangements to make up any missed work, to abide by university guidelines in dealing with your absence, to provide appropriate written documentation of any excused absence to the professor within one week of the absence. Failure to provide the documentation within one week of the absence will result in the absence being unexcused. Make up exams must be made up within one week of the missed exam. Students may report their absences through the Dean of Student’s website https://www.sfasu.edu/thehub/sos/notification-request

Academic Integrity
The Code of Student Conduct and Academic Integrity outlines the prohibited conduct by any student enrolled in a course at SFA. It is the responsibility of all members of all faculty, staff, and students to adhere to and uphold this policy.

Articles IV, VI, and VII of the new Code of Student Conduct and Academic Integrity outline the violations and procedures concerning academic conduct, including cheating, plagiarism, collusion, and misrepresentation. Cheating includes, but is not limited to: (1) Copying from the test paper (or other assignment) of another student, (2) Possession and/or use during a test of materials that are not authorized by the person giving the test, (3) Using, obtaining, or attempting to obtain by any means the whole or any part of a non-administered test, test key, homework solution, or computer program, or using a test that has been administered in prior classes or semesters without permission of the Faculty member, (4) Substituting for another person, or permitting another person to substitute for one’s self, to take a test, (5) Falsifying research data, laboratory reports, and/or other records or academic work offered for credit, (6) Using any sort of unauthorized resources or technology in completion of educational activities.

Plagiarism is the appropriation of material that is attributable in whole or in part to another source or the use of one’s own previous work in another context without citing that it was used previously, without any indication of the original source, including words, ideas, illustrations, structure,
computer code, and other expression or media, and presenting that material as one’s own academic work being offered for credit or in conjunction with a program course or degree requirements.

Collusion is the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any provision of the rules on academic dishonesty, including disclosing and/or distributing the contents of an exam.

Misrepresentation is providing false grades or résumés; providing false or misleading information in an effort to receive a postponement or an extension on a test, quiz, or other assignment for the purpose of obtaining an academic or financial benefit for oneself or another individual or to injure another student academically or financially.

Withheld Grades Semester Grades Policy (5.5)

Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the coursework because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course to compute the grade point average. For additional information, go to https://www.sfasu.edu/policies/course-grades-5.5.pdf.

Students with Disabilities

To obtain disability-related accommodations, alternate formats, and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services promptly may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/.

Student Wellness and Well-Being

SFA values students’ overall well-being, mental health and the role it plays in academic and overall student success. Students may experience stressors that can impact both their academic experience and their personal well-being. These may include academic pressure and challenges associated with relationships, emotional well-being, alcohol and other drugs, identities, finances, etc.

If you are experiencing concerns, seeking help, SFA provides a variety of resources to support students’ mental health and wellness. Many of these resources are free, and all of them are confidential.

On-campus Resources:
The Dean of Students Office (Rusk Building, 3rd floor lobby)
www.sfasu.edu/deanofstudents
936.468.7249
dos@sfasu.edu

SFA Human Services Counseling Clinic Human Services, Room 202
www.sfasu.edu/humanservices/139.asp
936.468.1041

The Health and Wellness Hub “The Hub”
Location: corner of E. College and Raguet St.
To support the health and well-being of every Lumberjack, the Health and Wellness Hub offers comprehensive services that treat the whole person – mind, body and spirit. Services include:

- Health Services
- Counseling Services
- Student Outreach and Support
- Food Pantry
- Wellness Coaching
- Alcohol and Other Drug Education

www.sfasu.edu/thehub
936.468.4008
thehub@sfasu.edu

Crisis Resources:

- Burke 24-hour crisis line: 1.800.392.8343
- National Suicide Crisis Prevention: 9-8-8
- Suicide Prevention Lifeline: 1.800.273.TALK (8255)
- johCrisis Text Line: Text HELLO to 741-741