### PHY 101 SEC. 03-04

### GENERAL PHYSICS I (PHYSICS 1305) SPRING 2019

**MEETING TIME:** 11:00 am-12:15 am T, TH, Room 401-402 STEM
**TELEPHONE:** 468-2391
**OFFICE:** Room 207 J STEM BUILDING
**OFFICE HOURS:** MW 8-9 am, MW2-3 p.m. T 2-3 pm / appointment
**TEXT:** *Conceptual Physics* (12th or 11th edition) Paul G. Hewitt
**LAB MANUAL:** Physics 101 lab manual

**General Physics I - (PHY 1305) -** The objective of this course is to introduce the basic concepts of sound, light, and mechanics with a minimum of mathematics utilized. All exams are multiple choices and require Scantron 882-E. The total possible points are 800. The Grading Scale is below:

<table>
<thead>
<tr>
<th>Points</th>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>720-800</td>
<td>A</td>
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<td>480-559</td>
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<tr>
<td>640-719</td>
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<td>000-479</td>
<td>D</td>
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<tr>
<td>560-639</td>
<td>F</td>
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Possible errors made in examination scoring must be discussed within one week of the date the result of the examination is posted. No corrections will be made to the examination grade after that period of time.

No make-up exams will be offered; however, with a written excuse absent, the lecture part of the final exam score with modification (see your instructor about this) may substitute for one missed exam. You must discuss this method with your instructor within one week of the missed exam.

The date and the time of the Final Exam cannot be altered. The Final Exam must be taken at the Same Date and Same Time as indicated in class syllabus (University Calendar).

**GOOD LUCK!**

<table>
<thead>
<tr>
<th>MON</th>
<th>TUE</th>
<th>WED</th>
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<td>12 OA 1 21/Review</td>
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<td>14 Exam 1</td>
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<td>11</td>
<td>12 OA 2 29/Review</td>
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<td>14 Exam II</td>
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<td>11 OA 3 5/Review</td>
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<td>15</td>
<td>16  EXAM III</td>
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<td>18 Easter Holiday</td>
<td>19 Easter Holiday</td>
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<td>30 OA 4 7/8</td>
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<td>6</td>
<td>7 Review 9/for Final</td>
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<td>9 review for final</td>
<td>10</td>
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<td>13</td>
<td>14FINAL EXAM 10:30-12:3</td>
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Mar. 13, 2019: Mid-Term,
Mar. 27, 2019: Last day to drop without WP or WF
Apr. 29, 2019: Last day to withdraw from University
MAY 14, 2019: FINAL EXAM from 10:30-12:30 pm.
Course Description

GENERAL PHYSICS I – (PHYSICS 1305) OR PHYSICS 101

General Bulletin Description: Presentation with a minimum of mathematics of the basic concepts of mechanics, light, and sound; May not be used to meet graduation requirements by students majoring in the College of Sciences and Mathematics. Computation of lecture and laboratory grades into one grade; same grade recorded for both lecture and laboratory.

This course presents a broad survey of the principles of wave motion, sound, light, and mechanics and will illustrate the logic and reasoning upon which these principles are based. A great deal of emphasis is placed on the understanding of these concepts. Students should become more aware of the fantastic natural phenomena that are occurring around them everyday.

Course Calendar:

Chapter 19 Vibrations and waves (one week)
Chapter 20 Sound (one week)
Chapter 21 Musical Sounds (one week)

OUTSIDE ASSIGNMENT #1 (Sonic Boom)
Exam I (Chapters 19, 20, 21) Feb. 14

Chapter 26 Properties of Light (one – half week)
Chapter 30 Light Emission (one week)
Chapter 27 Color (one week)
Chapter 28 Reflection and Refraction (one week)
Chapter 29 Light waves (one week)

OUTSIDE ASSIGNMENT #2 (Electromagnetic Spectrum)
Exam II (Chapters 26, 27, 28, 29, 30) Mar. 14
Chapter 2 Newton’s First Law of Motion (one-half week)
Chapter 3 Linear Motion (one week)
Chapter 4 Newton’s Second Law of motion (one week)
Chapter 5 Newton’s Third Law (one half week)
OUTSIDE ASSIGNMENT #3 (Newton’s laws of Motion)

Exam III (chapters 2, 3, 4, 5) Apr. 16
Chapter 6 Momentum (one-half week)
Chapter 7 Energy (one-half week)
Chapter 8 Rotational Motion (one week)
Chapter 9 Gravity (one half week)

OUTSIDE ASSIGNMENT #4 (Course Evaluation)
Final Exam (chapters 6, 7, 8, 9) May. 14 (10:30 am-12:30 Pm)

Grading Policy:
All exams are multiple choices (about 40-50 questions per exam) and require Scantron 882-E.
The total possible points are 800. The Grading Scale is below:

150 points- Lecture Exam #1
150 points- Lecture Exam #2
150 points- Lecture Exam #3
150 points- Final Lecture Exam
200 points- Lab Experiments + Lab Exam final
800 Total Points + bonus points to determine semester grade

The final grade will be assigned according to the following scale:

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<td>D</td>
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<tr>
<td>000-479</td>
<td>F</td>
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</tbody>
</table>

Attendance Policy:

The class attendance is the responsibility of each student. All students are expected to attend class regularly.
Poor attendance may affect your understanding of the materials and ultimately your grade in course. There is no penalty for those who miss classes; however those who attend each class period will be rewarded one bonus point which is added to the 800 points scale. Those students with a minimum or zero attendance will be seated in front of the classroom on a designated seats provided by the instructor during each examination (exam I, exam II, exam III, and the final exam).

If you are late to class or must leave early, please inform your instructor in advance.
Use of personal computer is permitted only for classroom lecture note taking.
Cell phones, pagers and other communication devices must be turned off during class.
Calculators that store a fair amount of information are not permitted during the examination. Cell Phone can not be used as a calculator.
Students are not to hold private side conversations.
Reading unrelated publications is not allowed.
Students who exhibit unacceptable classroom behavior will be dismissed from class and counted as absent.
Make sure you always use your SFA e-mail account for network correspondence.

EMAIL COMMUNICATIONS
Make sure you always use your SFA e-mail account for network correspondence.
**Program Learning Outcomes:** This is a general education core curriculum course and no specific program learning outcomes for the Physics Program are addressed in this course.

**General Education Core Curriculum**

The Texas Higher Education Coordinating Board has identified six core learning objectives: Critical Thinking Skills, Communication Skills, Empirical and Quantitative Skills, Teamwork, Personal Responsibility, and Social Responsibility. SFA is committed to the improvement of its general education core curriculum by regular assessment of student performance on these six objectives.

By enrolling in **General Physics II (PHY 1305) or Physics 101**, you are also enrolling in a Core Curriculum Course that fulfills the **CORE OBJECTIVE** requirement.

The following Core Objectives will be covered periodically in Physics 101 Lecture.

- **Critical Thinking:** to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information, (CO 1)
- **Communication Skills:** to include effective development, interpretation and expression of ideas through written, oral and visual communication, (CO 2)
- **Empirical and Quantitative Skills:** to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions, (CO 3)
- **Teamwork:** to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal, (CO 4)

You will see this course on your D2L list.

At one point during the semester, you will receive an assignment that fulfills both the requirements of this course and the needs of Stephen F. Austin State University’s Core Curriculum Assessment Plan with the Texas Higher Education Coordinating Board. When you complete this one assignment, you need to upload the assignment to both your standard course dropbox determined by your Instructor and the “Core Curriculum” dropbox. The Core Curriculum dropbox will be identified by the Objective for which work is being collected. (Examples: Critical Thinking, Teamwork, Social Responsibility Empirical & Quantitative Skills, Personal Responsibility, Communication Skills-Written, Communication Skills-Written & Visual, and Communication Skills- Oral & Visual.) Please note that this only applies to the approved assignment. All other assignments should be submitted according to regular class operations. If you have any questions, please see your Instructor or the Office of Student Learning and Institutional Assessment.

When you complete the assignment mentioned above, you will upload the assignment to both the **General Physics II (PHY 1305) or Physics 101** dropbox and the **Empirical and Quantitative Skills** dropbox.

Please note that this only applies to the specific assignment listed in the matrix below. All other assignments should be submitted according to regular class operations.

If you have any questions, please see your instructor or contact the Institutional Effectiveness Office at (936) 468-1130.
The chart below indicates the core objectives addressed by this course, the assignment(s) that will be used to assess the objectives in this course and uploaded to the D2L Empirical and Quantitative Skills dropbox this semester, and the date the assignment(s) should be uploaded to the D2L Empirical and Quantitative Skills dropbox. Not every assignment will be submitted for core assessment every semester. Your instructor will notify you which assignment(s) must be submitted for assessment in the D2L Empirical and Quantitative Skills dropbox.

*Include only the core objectives taught in this course and indicate which objectives are being formally assessed in this semester.*

<table>
<thead>
<tr>
<th>Core Objective</th>
<th>Definition</th>
<th>Course Assignment Title</th>
<th>Date Due in D2L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Critical Thinking Skills</td>
<td>To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.</td>
<td></td>
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<tr>
<td>Communication Skills</td>
<td>To include effective development, interpretation and expression of ideas though written, oral, and visual communication.</td>
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<tr>
<td>Empirical and Quantitative Skills</td>
<td>To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.</td>
<td><strong>THE SIMPLE PENDULUM</strong></td>
<td><strong>Week of April 22</strong></td>
</tr>
<tr>
<td>Teamwork</td>
<td>To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.</td>
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<tr>
<td>Personal Responsibility</td>
<td>To include the ability to connect choices, actions and consequences to ethical decision-making.</td>
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<td>Social Responsibility</td>
<td>To include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities.</td>
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</tbody>
</table>

The following core objectives will be covered periodically in PHY 101 laboratory:

**Critical Thinking:** to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information, (CO 1)

**Communication Skills:** to include effective development, interpretation and expression of ideas through written, oral and visual communication, (CO 2)

**Empirical and Quantitative Skills:** to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions, (CO 3)

**Teamwork:** to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal, (CO 4)
STUDENT LEARNING OUTCOMES:

By the end of the course, successful students will be able to:
1. Recognize that the world in which they exist can be described by a few natural laws, (SLO 1)
2. Demonstrate a basic familiarity with concepts of waves, sound, light, and mechanics, (SLO 2).
3. Describe natural phenomena in a conceptual manner rather than mathematically, (SLO 3)
4. Demonstrate skills developed in critical thinking, communication (written and visual), empirical and quantitative analysis, and teamwork, (SLO 4. Includes COs 1, 2, 3, 4)

ACADEMIC INTEGRITY (A-9.1)

Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

Definition of Academic Dishonesty

Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit.

Please read the complete policy at [http://www.sfasu.edu/policies/academic_integrity.asp](http://www.sfasu.edu/policies/academic_integrity.asp)

Withheld Grades Semester Grades Policy (A-54)

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 course work 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 for the purpose of computing the grade point average.
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 in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/.

Student Code of Conduct: Policy 10.4

Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program. Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This policy applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the iCare: Early Alert Program at SFA. Information regarding the iCare program is found at https://www.sfasu.edu/judicial/earlyalert.asp or call the office at 936-468-2703.

Student Counseling Center
Rusk Building 3rd Floor
(936) 468-2401 Email: counseling@sfasu.edu

The Student Counseling Center is available free of charge to students and is staffed with professional therapists to meet a variety of needs. All interactions with the Student Counseling Center are guaranteed confidential. Licensed Counselors are available from 8:00a.m.-5:00p.m. Monday -Friday. The department is closed on certain holidays, Spring Break and Winter Break when the university is closed. If you are in need of assistance after hours or on the weekend please call: University Police: (936)468-2608 or MHMR Crisis Line: (800)392-8343. If the situation is life threatening please dial 911.