Lecture Instructor: Dr. Walter Trikosko, Department of Physics and Astronomy
Phone: 469-3001
Email: wtmkosko@sfasu.edu
Office hours: 9:00-10:00 a.m. MWF and 2:00-3:00 p.m. TR or by appointment.
Laboratory assistant: Michael Flowers
Lab meeting time: Tuesday, 12:30-3:20 p.m.
Room 305 STEM Building

Lab | Date   | Lab Experiments                      |
--- | ------ | -------------------------------------|
1  | JAN 28 | The Vibrating String                 |
2  | FEB 4  | Organ Pipe                           |
3  | 11     | A Stimulation of Radioactive Decay   |
4  | 18     | Counting of Nuclear Radiation        |
5  | 25     | The Oscilloscope                     |
6  | MAR 4  | Ohm's Law                            |
7  | 11     | Series and Parallel Circuits         |
8  | 25     | AC Circuits                          |
9  | APR 1  | AC Circuits 2                        |
10 | 8      | The Ray Box                          |
11 | 15     | Properties of Converging Lenses       |
12 | 22     | The Telescope                        |
13 | 29     | The Diffraction Grating              |
X  | MAY 6  | LAB EXAM in Room 305                |

Supplies
- Bring the following supplies to every lab session:
  - Pencil and eraser
  - Laboratory Manual (PHY 132/242 sold in local bookstores)
  - Calculator
  - USB flash drive

Classroom Policies
- Each day’s lab begins with a brief presentation by the teaching assistant (15-30 minutes). Important instructions, theory, and procedures for completing the lab exercise are given at that time. At the conclusion of the presentation students will then complete the lab exercise under the guidance of the lab assistant.
- Come prepared! Read over the lab exercise before coming to class (see calendar) and bring required materials.
- Arrive on time to avoid missing important instructions and/or possible pop quizzes!
- All electronic communication devices must be turned off during class.

Grading
- One quarter of your final grade for Physics 242 will come from your laboratory performance. To arrive at your laboratory performance grade your best eleven experiment grades each with a weighting factor of one, will be averaged with your lab final exam grade with a weighting factor of three.

\[
\text{Lab performance grade} = \sum_{i=1}^{12} \text{best experiment grades} \times \frac{1}{3} + \text{lab final exam grade} \times \frac{15}{3}
\]

This grade will be combined with your lecture grade to determine your overall final grade for Physics 242. (See lecture syllabus for further information.)
- Each experiment grade will be based on the experiment, weekly exercise and possible pop quiz. The exercise will count 20% of your grade. Pop quizzes may include questions over the present and/or most recent laboratory exercise.
- Each lab must be completed during the lab period. One or more will be presented as a formal lab report due the following week.
- There will be no make-up labs.
- Your experiment average will be drastically affected if you have more than one absences and any of them are unexcused.
- Excused absences must be approved by Dr. Trikosko within 2 days of the absence.
- Experiment grades and absences will be posted each day in lab. It is your responsibility to check these postings each day in order to identify errors in the previous day's experiment grade or absence designation. You have 2 days from the day of each posting to correct any such errors.

General Education Core Curriculum:

<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>Empirical and Quantitative Skills (CO 3)</td>
<td>To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.</td>
<td>AC Circuits</td>
<td>April 4</td>
</tr>
</tbody>
</table>

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 Technical Physics II you are also enrolling in a Core Curriculum Course that fulfills the Empirical and Quantitative Skills Requirement. 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-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 Technical Physics II 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.

LAB ABSENCES: We realize that occasionally there are legitimate reasons for missing a lab such as illness, family emergency and participation in certain university-sponsored events. Please read the following absence policy carefully.

If you will be missing lab because of an approved university-sponsored event you must inform the laboratory supervisor at least one week before the absence.

✓ Students are responsible for providing timely documentation satisfactory to the laboratory supervisor for each absence. You have one week after missing a lab to bring a written excuse for an absence. If you do not bring a written excuse within one week, the absence cannot be excused.

✓ Students will receive a grade of zero for each UNEXCUSED lab absence.

✓ Whether an absence is excused or unexcused, a student is still responsible for all course content.

ACADEMIC INTEGRITY: 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/student_academic_dishonesty.pdf

ACCEPTABLE STUDENT BEHAVIOR: 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 (see the Student Conduct Code, Policy D-34.1).

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 prohibition 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 Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.

http://www.sfasu.edu/policies/student-code-of-conduct_10.4.pdf

WITHHELD GRADES POLICY: 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 Error! Hyperlink reference not valid.

STUDENT COUNSELING CENTER: (936) 468-2401
Rusk Building 3rd FloorEmail: 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.