

TTU Physics 2401, Section 002, Principles of Physics II, Spring 2020

Exam-1 Guidance

Date of Exam 1: In-class Exam on Friday, 2/14/2020

The range of contents for Exam 1 is specified as follows.

All these Lecture materials are pertinent to this exam:

- **Your class notes** taken from 1/15 (Wed) to 2/12 (Wed).
- **Lecture slides** from 1/15 (Wed) to 2/12 (Wed).

For the slides, see TTU Blackboard: <https://www.depts.ttu.edu/lms/>

- **Relevant Textbook Sections:**

**Chapter 22: Electric Fields**

- 22.1: Properties of Electric Charges
- 22.2: Charging Objects by Induction
- 22.3: Coulomb's Law
- 22.4: Analysis Model: Particle in a Field (Electric)
- 22.5: Electric Field Lines

**Chapter 23: Continuous Charge Distributions and Gauss's Law**

- 23.1: Electric Field of a Continuous Charge Distribution
- 23.2: Electric Flux
- 23.3: Gauss's Law
- 23.4: Application of Gauss's Law to Various Charge Distributions

- **Relevant Textbook Examples:**

Chapter 22	Chapter 23
Example 22.1	Example 23.1
Example 22.2	Example 23.2
Example 22.3	Example 23.3
Example 22.4	Example 23.4
Example 22.5	Example 23.5
Example 22.6	Example 23.6
	Example 23.7
	Example 23.8

- **All the Sample Problem Sets:**

All the Sample Problem Sets ever given in my Lectures (**from 1/15 up to 2/12**) are pertinent to this exam. One exception is Sample Problem Set 3, which is irrelevant to Exam 1.

See TTU Blackboard: <https://www.depts.ttu.edu/lms/>

**All the following Homework Problem Sets** are pertinent to this exam:

- **Homework Problem Set 01**
- **Homework Problem Set 02**
- **Homework Problem Set 03**

The web portal for the online Homework system is:

<https://www.webassign.net/wa-auth/login>

**Exam Instructions:**

1. Any student who takes this exam is subjected to Texas Tech **Operating Policy 34.12: Grading Procedures, Including Academic Integrity**.
2. Total points for this Exam are 100 points.
3. It is your responsibility to bring your TTU Student ID, orange scantron sheets, one calculator, one eraser and some pencils with you. The instructor does not have extra calculators, scantron sheets or pencils for the students.
4. Grading is based fully upon the correctness of your final answers marked on your scantron sheets.
5. No partial credit can be assigned to any problem in this Exam.
6. You can use one calculator during this Exam. The type of this calculator can be a basic calculator, a scientific calculator or a graphic calculator.
7. You can have one notecard, which has an area no more than 5.5 inches by 8.5 inches. You can write on both the front and back sides of this notecard. This notecard must be **handwritten** by you alone and **cannot** be a photocopy of any other document.