

Physics 222, Sections 12 - 16, Elements of Physics II, Spring 2023

Welcome to the Spring 2023 semester!

Physics 222 is a 4 credit-hour, introductory physics course with laboratories. The class material is divided into 12 modules. For each module students are expected to submit assignments and lab reports online on time. For class participation credit students must attend class and contribute questions, answers, hints, or comments to a discussion forum. Optional extra credit assignments associated with each module must also be submitted on time.

Physics 222 is a general education course. Please allow enough time in your schedule for this 4 credit-hour course.

Instructor:

Dr. Stefan Spanier (Physics)

Office: 607 Science and Engineering Building

Office Hours: T 2 pm - 3 pm, W 10 am – 11 am, and by appointment, face-to-face or online (Zoom)

All instructors will have office/tutoring hours at different times during each week. Students from all sections can attend any instructor's office/tutoring hour.

Class structure:

Students will only meet once per week for one hour and 15 minutes in a large lecture hall:

Lecture: Tuesdays, 11:20 - 12:35, room 415, Nielsen Physics Building

and once per week, by section, for 2 hours and 30 minutes in a

Studio Physics: days as assigned by section, classroom 207 Nielsen Physics Building.

The traditional second meeting in the large lecture hall is replaced by online activities that students schedule themselves.

Students are expected to complete online class modules on time. Each module consists of two sets of online class materials that students are required to study, two homework assignments (labelled a and h), one laboratory write-up, a class participation discussion forum, and optional extra credit opportunities.

All assignments for each module must be completed by the date shown on the schedule. Links for the submission of all assignments are on Canvas (Assignments). Students should use the online discussion forum to engage with the instructors and each other.

Class participation credit:

Students earn class participation credit by attending class and by contributing questions, answers, hints, comments, etc to a Canvas discussion forum.

Students are responsible for their own learning.

Textbook:

The textbook for the class is OpenStax Tutor, College Physics.

This is an online textbook with spaced practice problems and feedback. You find the instructions on how to access this textbook on Canvas under Modules.

The College Physics textbook by itself can be found at

<https://openstax.org/details/books/college-physics-2e>

and can also be downloaded as a PDF.

Homework assignments:

Homework assignments are based on the material covered in the online modules. They are found under Assignments on Canvas and must be submitted on time.

Laboratories:

Each section has its own lab instructors. The lab instructor will help students with the laboratories and grade the lab reports. Students cannot earn a passing grade for the course, unless they earn a passing grade for the labs.

Exams:

There will be two 90 minute exams, on October 17 and on December 12. The exams are online. Exam 1 questions are about material covered in modules 1 - 6, and exam 2 questions are about material covered in modules 7 - 12. Students will take the tests online using the Chrome browser with the Proctorio extension during any 90 minute period between 7:00 am and 11:30 pm on the test day.

Extra credit:

Up to 5% points extra credit will be available from answering OpenStax Tutor questions and 5% points from answering extra credit questions on Canvas. Additional extra credit opportunities counting up to 2% points will be announced during class time.

Grades:

Grading Scale:

90% and above	A
87% - 89%	A-
83% - 86%	B+
80% - 82%	B
77% - 79%	B-
73% - 76%	C+
70% - 72%	C
67% - 69%	C-
63% - 66%	D+
60% - 62%	D
57% - 59%	D-

Class participation	10%
Homework	20%
Lab reports	20%
Tests	50%
OpenStaxTutor + Web Questions	+10%
Extra	+2%

Missed assignments:

Students must notify the instructor promptly if they miss an assignment or do not attend a class meeting or studio session with a valid excuse and request an extension. They may be asked to submit documentation. Late notifications will not be accepted.

Announcements:

In Canvas, please go to "Account", "Notifications", and set your notification preferences so that you receive announcements notifications and conversations immediately. Review the announcements in Canvas regularly!

The University of Tennessee, Knoxville, is committed to providing an inclusive learning environment for all students. If you anticipate or experience a barrier in this course due to a chronic health condition, a learning, hearing, neurological, mental health, vision, physical, or other kind of disability, or a temporary injury, you are encouraged to contact Student Disability Services (SDS) at 865-974-6087 or sds@utk.edu. An SDS Coordinator will meet with you to develop a plan to ensure you have equitable access to this course. If you are already registered with SDS, please contact your instructor to discuss implementing accommodations included in your course access letter.

Student Disability Services

915 Volunteer Blvd/100 Dunford Hall

Knoxville, TN 37996

Tel: 865-974-6087

Fax: 865-974-9552

VRS: 865-622-6566

Email: sds@utk.edu

Website: [Home - Student Disability Services \(utk.edu\)](#)

Please review the [Campus Syllabus](#) for information that is common across all courses at UTK.