

Syllabus for Physics 4110 for Spring, 2018

Regular Meeting Times: MoWeFr 1:00PM - 1:50PM, PHYS 112

Recitation Meeting Times: We 2:00PM - 2:50PM, PHYS 112

Instructor: Dr. Carlos Ordonez (or-dawn-ez) PHYS 302, 940-565-4860, cao@unt.edu

Instructor's Office Hours: MoWe 11:30AM - 12:50PM or by appointment

Course Packet: The course packet is required for each class. PHYS 4110 Course Packet by C. A. Ordonez is available at the Eagle Images Design and Digital Print Center in Room 221 of the University Union.

Scientific Calculator: A calculator is required for each class. The calculator should have the \sqrt{x} , $\ln(x)$, and y^x functions and scientific notation.

Textbook: The course textbook is recommended but not required. An Introduction to Thermal Physics by Daniel V. Schroeder, Addison-Wesley (2000).

Attendance: Attendance is required.

Prerequisite(s): PHYS 3010.

Course Requirements:

Three Exams:	Each Counts 30%
Final Exam:	Counts 30%
Assignments:	Count 10%

Exams: The lowest of the four exam grades is dropped. If an exam is missed for any reason, it will be the one dropped. Make-up exams will **not** be given. Exams are multiple choice, open book/notes, and a non-communicating calculator is required. Answer sheets are provided. If you are more than 20 minutes late to an exam, you will not be allowed to take the exam. If you turn in your exam, you must leave the room. Items (e.g., calculators) may *not* be shared during an exam.

Assignments: Each assignment is due at the beginning of class one week following the designated start date, as given on the schedule below. Any assignments that have start dates during the first week of class may be turned in up to one week late without penalty. You may only turn in assignments for credit during class, and assignments may not be

turned in after the class period that precedes pre-finals week. You may help each other when working assignments (but not when working exams). However, each person must submit separate work. After you finish an assignment, you will be responsible for having it graded (if a grader is available) or grading it yourself (if answers are provided). You may revise your work and regrade the assignment up to the due date. An assignment is penalized 30 points (out of 100) if turned in late by up to one week. Assignments are not accepted more than one week late. Staple each assignment separately and put your name on each. (The instructor has a stapler if you need one.)

Extra Practice Problems and Optional Assignments: It is recommended that each set of extra practice problems be worked in preparation for each exam. Bring up questions regarding how to work extra practice problems during the Recitations. Extra practice problems and any assignments that are designated as optional are not to be turned in.

Schedule (assignment start dates are shown)

Jan. 17	B02	Probability, Statistics
Jan. 22	B03	Probability Density
Jan. 29	B04	Random Walk
Feb. 5	B07	Line, Surface, and Volume Integrals
Feb. 12	Exam 1	
Feb. 14	BSP1A	Systems of Non-Interacting Particles
Feb. 19	BSP1A	Systems of Non-Interacting Particles
Feb. 26	BSP1B	Systems of Non-Interacting Particles
March 5	BSP2	Conduction Electrons, Blackbody Radiation
March 12-16	Spring Break (no classes)	
March 19	BSP3	Superfluid Helium, Classical Gas
March 26	Exam 2	
March 28	BSP5	Systems of Magnetic Particles
April 2	BSP6	Connections With Thermodynamics
April 9	BSP7	Thermodynamic Processes
April 16	BSP8	Thermodynamic Cycles
April 23	BSP8	Thermodynamic Cycles
April 27	Exam 3	
April 30, May 2	Help Sessions (Pre-finals Days are May 2-3)	
May 4	Reading Day (no classes)	
Sat., May 5	Comprehensive Final Exam, 10:30AM - 12:30PM	

Addendum to Course Syllabus

The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking reasonable accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with a reasonable accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request reasonable accommodations at any time, however, ODA notices of reasonable accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of reasonable accommodation for every semester and must meet with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of reasonable accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information see the Office of Disability Accommodation website at <http://www.unt.edu/oda>. You may also contact them by phone at [940.565.4323](tel:940.565.4323).

UNT's policy on Academic Dishonesty can be found at:

http://policy.unt.edu/sites/default/files/06.003_StudentStandardsOfAcademicIntegrity_8_2017.pdf

Drop information is available in the schedule of classes at:

<http://registrar.unt.edu/registration/schedule-of-classes>

The Student Perceptions of Teaching (SPOT) is a requirement for all organized classes at UNT. This short survey will be made available to you on-line at the end of the semester and will provide you with an opportunity to provide feedback to your course instructor. SPOT is considered to be an important part of your participation in this class. In addition to SPOT, there will be a brief in-class course survey during the last two weeks of the semester.

For the Spring 2018 semester you will receive an email on April 2nd (12:01 a.m.) from "UNT SPOT Course Evaluations via IASystem Notification" (no-reply@iasystem.org) with the survey link. Please look for the email in your UNT email inbox. Simply click on the link and complete your survey.

After logging in to the my.unt.edu portal, students can access the SPOT survey site by clicking on the SPOT icon. A list of their currently enrolled courses will appear. Students complete each course evaluation independently. During the long terms, the SPOT is open for students to complete two weeks prior to final exams. During the Spring term, the SPOT is open for students to complete six days preceding their final exam. See [SPOT Calendar](#) for specific dates and deadlines.