

"COURSE SYLLABUS"

PHY 4371 – Thermodynamics and Statistical Mechanics

Credit Hours: 3

Fall, 2017

Farrington Building, Room 107

MWF 10:00 – 10:50 a.m.

Instructor: Dr. Barry Friedman
Office Location: Farrington Room 204 b

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Office Hours: Monday, Wednesday, Friday
9:00 a.m. – 10:00 a.m.

Course Description: Thermodynamics and Statistical Mechanics will be studied.

Course Objective: The objective is to obtain a conceptual understanding and to be able to apply thermodynamics and statistical mechanics to physical systems.

Required Textbook: Introductory Statistical Mechanics. 2nd edition, R. Bowley and M. Sanchez

Required Supplies: Pencil or pen, paper, and a scientific calculator

Optional Texts: Statistical Physics, F. Mandl 2nd edition,

Statistical Physics, by L. Landau and E. Lifshitz, Statistical and Thermal Physics (With Computer Applications), H. Gould and J. Tobochnik

- Attendance Policy: Class will start and end at the assigned times. Please see the university catalogue for institution expectation regarding class attendance.
- Assignments: Homework assignments will be given.
- Exams: Two major examinations will be given during the semester. Quizzes will be given throughout the semester and will constitute the 3rd major exam. At the end of the semester a comprehensive final examination will be given.
- Grading Plan: The hour exams will count 50%. The final will count 30%. Homework will count 20%.
- Academic Dishonesty: All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials.
- Classroom Rules of Conduct: Students will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the university. Cellular telephones and pagers must be turned off before class begins. Students are prohibited from eating in class, using tobacco products, making offensive remarks, reading newspapers, sleeping, talking at inappropriate times, wearing inappropriate clothing, or engaging in any other form of distraction. Inappropriate behavior in the classroom shall result in a directive to leave class. Students who are

especially disruptive also may be reported to the Dean of Students for disciplinary action in accordance with university policy.

Visitors in the Classroom: Unannounced visitors to class must present a current, official SHSU identification card to be permitted in the classroom. They must not present a disruption to the class by their attendance. If the visitor is not a registered student, it is at the instructor's discretion whether the visitor will be allowed to remain in the classroom.

Course Outline: The course will cover chapters 1 through 9 in the text. This may be altered at the discretion of the instructor.

STUDENTS WITH DISABILITIES POLICY:

It is the policy of Sam Houston State University that individuals otherwise qualified shall not be excluded, solely by reason of their disability, from participation in any academic program of the university. Further, they shall not be denied the benefits of these programs nor shall they be subjected to discrimination. Students with disabilities that might affect their academic performance should register with the Office of Services for Students with Disabilities located in the Lee Drain Annex (telephone 936-294-3512, TDD 936-294-3786, and e-mail disability@shsu.edu). They should then make arrangements with their individual instructors so that appropriate strategies can be considered and helpful procedures can be developed to ensure that participation and achievement opportunities are not impaired.

SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Services for Students with Disabilities and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. NOTE: No accommodation can be made until you register with the Services for Students with Disabilities. For a complete listing of the university policy, see:

<http://www.shsu.edu/dept/academic-affairs/documents/aps/students/811006.pdf>

Religious Holidays: An institution of higher education shall excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence. A student who plans to miss a class or required activity to observe a religious holy day should inform the professor in writing prior to planned absence.