

## ME 200 – THERMODYNAMICS I

### COURSE POLICY – SPRING 2023

- 1. LEARNING OBJECTIVES.** There are four learning objectives associated with this course:
  - To successfully employ the systematic *engineering approach to problem solving*
  - To master applying the *Law of Mass Conservation* when analyzing thermodynamics problems
  - To be proficient in the use of the *1<sup>st</sup> Law of Thermodynamics* to perform energy accounting when solving thermodynamics problems
  - To be a competent user of the *2<sup>nd</sup> Law of Thermodynamics* to perform entropy balance when solving thermodynamics problems
- 2. TEXTBOOK.** Moran, M. J., Shapiro, H.N., Boettner, D.D., and Bailey, M.B., Fundamentals of Engineering Thermodynamics, Wiley; the 7<sup>th</sup>, 8<sup>th</sup>, or 9<sup>th</sup> edition are acceptable. However, reading assignments are keyed to the 8<sup>th</sup> edition. Wiley Plus is not needed. You must use the property tables available on the course site for your division, not those in the textbook, for homework problems.
- 3. PREREQUISITES.** The material in ME 200 requires mastery of CHEM 115 and PHYS 172, and includes co-registration in MA 261.
- 4. ASSIGNMENTS.** The course schedule is provided as a separate document. It provides a list of topics covered during each class period, the reading to be completed before that class period, as well as the corresponding homework assignments. Note that even if the instructor does not cover every scheduled topic, or may not have time in class to cover all the items, you are still responsible for all the material that is listed in the schedule.
- 5. ATTENDANCE.** Attendance and participation in the classroom are expected. However, you should follow the Protect Purdue Pledge and stay home if you are sick or if you have symptoms associated with the virus, or if you suspect you have been in contact with someone who is sick or exposed to the virus.
- 6. HOMEWORK.** Homework problem statements and solutions will be available through the course site for your division. All homework problems must follow the engineering approach provided in a separate document. Homework assignments will be submitted via Gradescope and due by 11:59 p.m. EST on the dates listed in the course schedule. Late homework is never accepted.
- 7. EXAMINATIONS.** There are three evening examinations and one comprehensive final examination. All examinations will be on-campus and in-person unless health conditions change. All examinations will be closed-book and closed-notes. You must use only TI-30XIIS calculator on all examinations. There will be no exceptions to this requirement. You can read more about this policy at: <https://engineering.purdue.edu/ME/Undergraduate/calculatorPolicy>. More details for each examination logistics will be provided at least one week prior to the date of the examination. Make-up evening examinations are given only in the case of university-approved absences including grief absence, military absence, jury duty absence, and medically excused absence (MEAPS). If you are sick with acceptable medical proof from a physician or nurse practitioner or Protect Purdue Health Center (PPHC), or have an emergency (with proof), or have prior approval from your instructor to miss an evening exam, then contact your instructor. Make-up final examinations are given only in the case of a registered conflict. You must resolve this conflict with your instructor prior to 5 p.m. EST on the last day of the semester.
- 8. HELP.** There are several sources of help available outside of class – instructor and teaching assistant

office hours, course blog (Piazza), and Supplemental Instruction (SI) sessions. Office hour times and SI information will be posted on the Brightspace site for your division.

**9. COURSE GRADING.** Your course grade is based on the following algorithm:

Three Evening Examinations (20% each)	60%
Final Examination	25%
Homework	15%

Five lowest homework scores (for any reason including medical emergency and other university-registered absences) will be dropped from consideration.

Course grading will not be more stringent than a straight-scale ( $90 \leq \text{any A}$ ;  $80 \leq \text{any B} < 90$ , etc.). Grade break scores may vary from straight-scale and may be curved at the instructor's discretion.

Regrading requests must be submitted to your instructor within one week of the date the graded document was made available. Prior to submitting a written regrade request, review the posted solutions and then prepare a written justification for the regrade. Regraded items may result in a score that is higher, lower, or the same as compared to the original score.

**10. ACADEMIC INTEGRITY.** Academic integrity is one of the highest values that Purdue University holds. You are encouraged to alert university officials to potential breaches of this value either by emailing [integrity@purdue.edu](mailto:integrity@purdue.edu) or by calling 765-494-8778. While information may be submitted anonymously, the more information that is submitted provides the greatest opportunity for the university to investigate the concern.

When submitting any exam or homework you are adhering to the Purdue Honor Pledge: "As a boilermaker pursuing academic excellence, I pledge to be honest and true in all that I do. Accountable together – we are Purdue".

Any form of academic dishonesty on an exam or homework (as defined at [http://www.purdue.edu/studentregulations/student\\_conduct/regulations.html](http://www.purdue.edu/studentregulations/student_conduct/regulations.html)) results in a grade of zero for that exam or a single course letter grade reduction (e.g. C+ to C, B- to C+, etc.) for cheating on homework, and a letter will be sent to the Dean of Students. After more than one such instance you will receive a failing grade for ME 200 and a letter will be sent to the Dean of Students recommending that you be suspended from Purdue University. Any dishonesty on the final exam will result in a zero for the final exam.

Note that copying homework and exams directly from a friend, or from a file, or a solution manual, or any other resource such as Chegg, CourseHero, WeeklyJoys, or any other online resource is cheating. Homework and exam questions are copyrighted materials and therefore you are prohibited from posting them on Chegg, CourseHero, etc. If you are found to be posting and/or accessing exam and/or homework questions and solutions on Chegg, CourseHero, etc., then you will receive a grade of zero for that exam or a single course letter grade reduction (e.g. C+ to C, B- to C+, etc.) for cheating on homework without any exception.

**11. NONDISCRIMINATION STATEMENT.** Purdue University is committed to maintaining a community which recognizes and values the inherent worth and dignity of every person; fosters tolerance, sensitivity, understanding, and mutual respect among its members; and encourages each individual to strive to reach his or her own potential. In pursuit of its goal of academic excellence, the University seeks to develop and nurture diversity. The University believes that diversity among its many members strengthens the institution, stimulates creativity, promotes the exchange of ideas, and enriches campus life.

- 12. STUDENTS WITH DISABILITIES.** Purdue University strives to make learning experiences as accessible as possible. If you anticipate or experience physical or academic barriers based on disability, you are welcome to let your instructor know so that we can discuss options. You are also encouraged to contact the Disability Resource Center either by emailing [drc@purdue.edu](mailto:drc@purdue.edu) or by calling 765-494-1247.
- 13. CAMPUS EMERGENCY POLICY.** In the event of a campus emergency, campus emergency procedures ([https://www.purdue.edu/ehps/emergency\\_preparedness/flipchart/index.html](https://www.purdue.edu/ehps/emergency_preparedness/flipchart/index.html)) will be followed. The course requirements, deadlines, and grading percentages are subject to changes that may be necessitated by a revised calendar. You will be informed of such changes by email from the instructor. You are expected to read your @purdue.edu email frequently on a daily basis.
- 14. MENTAL HEALTH STATEMENT.** If you are struggling and need mental health services: Purdue University is committed to advancing the mental health and well-being of its students. If you or someone you know is feeling overwhelmed, depressed, and/or in need of mental health support, services are available. For help, such individuals should contact Counseling and Psychological Services (CAPS) at 765-494-6995 during and after hours, on weekends and holidays, or by going to the CAPS office of the second floor of the Purdue University Student Health Center (PUSH) during business hours.
- 15. VIOLENT BEHAVIOR POLICY.** Purdue University is committed to providing a safe and secure campus environment for members of the university community. Purdue strives to create an educational environment for students and a work environment for employees that promote educational and career goals. Violent Behavior impedes such goals. Therefore, violent behavior is prohibited in or on any University Facility or while participating in any university activity.
- 16. PROTECT PURDUE.** The [Protect Purdue Plan](#), which includes the [Protect Purdue Pledge](#), is campus policy and as such all members of the Purdue community must comply with the required health and safety guidelines. Required behaviors in this class include: staying home and contacting the Purdue University Student Health Center (PUSH) if you feel ill or know you have been exposed to viral infections. Any student who has substantial reason to believe that another person in a campus room (e.g. classroom) is threatening the safety of others by not complying may leave the room without consequence. The student is encouraged to report the behavior to and discuss the next steps with their instructor. Students also have the option of reporting the behavior to the [Office of the Student Rights and Responsibilities](#). See also [Purdue University Bill of Student Rights](#).