

ME 3320/5320: THERMODYNAMICS II

Instructor: Professor Scott K. Thomas, Ph.D., (937) 775-5142, Room 124 Russ Engineering Center
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Course Homepage: <http://cecs.wright.edu/~sthomas/thermodynamics2.html>

Class Hours: MWF 2:30 p.m. to 3:25 p.m., Room 153 Russ Engineering Center

Office Hours: MWF 9:00 to 10:00 a.m., 3:30 to 4:30 p.m., or by appointment, Room 124 Russ Engineering Center

Text: Cengel and Boles; *Thermodynamics: An Engineering Approach*, McGraw-Hill.

Problem Sets: Use Handouts for the Problem Sets, which are due as indicated in the Course Schedule below. Each homework assignment will be submitted as a single PDF file using the Dropbox feature within Pilot. Late homework assignments will not be accepted by the Dropbox feature within Pilot or by the instructor.

Homework Handouts: <http://cecs.wright.edu/~sthomas/thermodynamics2handouts.html>

Homework Solutions: <http://cecs.wright.edu/~sthomas/thermodynamics2homeworksolutions.html>

Mid-Term Exams: Mid-term exams are scheduled as indicated in the Course Schedule below. Mid-term exams will not be rescheduled for any individual for any reason. If you miss a mid-term exam, the weight of that midterm exam will be placed onto the final exam. If you take a mid-term exam, you can choose to not have it graded. Simply take the bluebook with you as you exit the room. If you take your bluebook with you, the weight of that mid-term exam will be placed onto the final exam. If you submit a bluebook for me to grade, I will grade it, and you will receive the grade.

Final Exam: The final exam is scheduled as indicated in the Course Schedule below. The final exam will not be rescheduled for any individual for any reason. You cannot miss the final exam. If you miss the final exam, you will receive a FAILING GRADE for the class.

Items that ARE allowed during mid-term exams and the final exam:

- Bound textbook
- Calculator that does not have electronic communication capabilities
- Instructor-supplied paper
- Pen or pencil
- Eraser

Items that ARE NOT allowed during mid-term exams and the final exam:

- Cell phones or other electronic communication devices or methods
- The electronic version of the book
- Photocopies of the bound textbook
- Print-outs of the electronic version of the book
- Extra sheets of paper of any kind

I reserve the right to move any individual to another seat at any time during mid-term exams and the final exam.

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Student Conduct During Mid-Term Exams and the Final Exam:

- If you have a cellphone or other electronic communication device out during a mid-term exam, YOU WILL RECEIVE A ZERO FOR THE MID-TERM EXAM.
- If you decide to share your work with someone else during a mid-term exam, BOTH PEOPLE WILL RECEIVE ZEROES FOR THE MID-TERM EXAM.
- If you have a cellphone or other electronic communication device out during the final exam, YOU WILL RECEIVE A FAILING GRADE FOR THE CLASS.
- If you decide to share your work with someone else during the final exam, BOTH PEOPLE WILL RECEIVE A FAILING GRADE FOR THE CLASS.

Each type of incident outlined above will be referred to the Office of Community Standards and Student Conduct as a case of academic dishonesty.

Academic Integrity Standards:

<http://www.wright.edu/community-standards-and-student-conduct/code-of-student-conduct/academic-integrity>

Course Grade: 10% Problem Sets, 30% Mid-Term Exam 1, 30% Mid-Term Exam 2, 30% Final Exam.

A: 100 to 90, B: 89 to 80, C: 79 to 70, D: 69 to 60, F: < 60

Class Period	Date	Subject	Chapter	Homework Due Dates
1	8/26	Thermodynamics I Review	1-7	
2	8/28	Thermodynamics I Review	1-7	
3	8/30	Thermodynamics I Review	1-7	
4	9/2	Labor Day Holiday, University Closed		
5	9/4	Thermodynamics I Review	1-7	
6	9/6	Thermodynamics I Review	1-7	
7	9/9	Gas Power Cycles	9	
8	9/11	Gas Power Cycles	9	
9	9/13	Gas Power Cycles	9	
10	9/16	Gas Power Cycles	9	
11	9/18	Gas Power Cycles	9	
12	9/20	Vapor and Combined Power Cycles	10	
13	9/23	Vapor and Combined Power Cycles	10	
14	9/25	Vapor and Combined Power Cycles	10	
15	9/27	Vapor and Combined Power Cycles	10	
16	9/30	Vapor and Combined Power Cycles	10	
17	10/2	Mid-Term Exam 1	1-7,9,10	Hmwks 1,9,10
18	10/4	Refrigeration Cycles	11	
19	10/7	Refrigeration Cycles	11	
20	10/9	Refrigeration Cycles	11	
21	10/11	Refrigeration Cycles	11	
22	10/14	Refrigeration Cycles	11	
23	10/16	Gas Mixtures	13	Hmwk 11
24	10/18	Gas Mixtures	13	
25	10/21	Gas Mixtures	13	
26	10/23	Gas Mixtures	13	
27	10/25	Gas Mixtures	13	
28	10/28	Gas-Vapor Mixtures and Air Conditioning	14	Hmwk 13
29	10/30	Gas-Vapor Mixtures and Air Conditioning	14	
30	11/1	Gas-Vapor Mixtures and Air Conditioning	14	
31	11/4	Gas-Vapor Mixtures and Air Conditioning	14	
32	11/6	Gas-Vapor Mixtures and Air Conditioning	14	
33	11/8	Mid-Term Exam 2	11,13,14	Hmwk 14
34	11/11	Veterans Day, University Closed		
35	11/13	Chemical Reactions	15	
36	11/15	Chemical Reactions	15	
37	11/18	Chemical Reactions	15	
38	11/20	Chemical Reactions	15	
39	11/22	Compressible Flow	17	Hmwk 15
40	11/25	Compressible Flow	17	
41	11/27	Thanksgiving Holiday, University Closed		
42	11/29	Thanksgiving Holiday, University Closed		
43	12/2	Compressible Flow	17	
44	12/4	Compressible Flow	17	
45	12/6	Compressible Flow	17	
46	12/13	Final Exam: 2:45 p.m. to 4:45 p.m.	ALL	Hmwk 17