

SYLLABUS
ME 303 – Thermodynamics – Fall 2009
Section 001
Last Updated: August 17, 2009

1. General Information

Instructor:	Prof. J. R. Saylor
Office:	229 Fluor Daniel Building 656-5621 jrsaylor@ces.clemson.edu
Office Hours:	M 2:00 - 4:00 PM and by <u>appointment</u> .
Textbook:	(1) <u>Fundamentals of Engineering Thermodynamics</u> by Moran & Shapiro (6th Edition)
Course Time/Location:	MWF - 8:00 - 8:50AM, 307 Riggs.
Prerequisites:	ME 203 all with a C or better.

2. Web Site:

Information relevant to this course will be posted on the course web-site. This syllabus is also available on this web page. Note that any corrections to this syllabus will be reflected on the web site version. The URL for this web site is:

<http://www.ces.clemson.edu/~jsaylor/teaching.html>

NOTE: Neither MyCLE or Blackboard will be used in this course. Refer to the above web site for all web-posted material. Check this web site frequently.

3. E-mail:

I frequently communicate to the class via e-mail. Check your e-mail often. E-mails will be sent only to your Clemson account. It is your responsibility to be sure this account is functioning properly.

4. Attendance

You are expected to attend all classes. Attendance will not be taken and there will be no attendance grade in this course. If you miss a class, it is your responsibility to determine what material you missed. You should obtain this material from another student; do not ask me to bring you up to speed if you have missed a class. Poor performance on an exam, quiz or other assignment which results from missing a class will under no circumstances be accepted as a rationale for alteration of any grade. Even if you have a legitimate excuse for your absence (see Documentable Excuses, below), it is still your responsibility to learn what you missed.

5. Lateness

Because of the distraction caused by students entering during class, you are not permitted to enter the classroom once I have begun lecturing. Do not attempt to enter the classroom once I have begun lecturing even if the door to the classroom happens to be open. If I am late to class, you are required to wait 20 minutes before you may assume that class has been canceled.

6. Homework:

Weekly homework assignments will be given. You are strongly encouraged to do these homework assignments, however they will not be graded or handed in. You will be quizzed on the material covered in each homework assignment (see below). Success on these quizzes will require proficiency on the homework. The homework assignment schedule will be handed out separately. There may be changes to the assignments and/or due dates; these will either be announced in class, or e-mailed to you. The solutions to **most** of the assigned problems can be found on the class web page.

7. Quizzes:

You will be given two types of quizzes in this course: Announced Quizzes and Surprise Quizzes. **All quizzes are weighted equally.**

Announced Quizzes: Announced quizzes will be typically given on the 'due' date for that week's homework assignment. I will confirm the exact date of these quizzes one or two lectures ahead of time. The subject of that quiz will be identical to the subject matter of the homework assignment. The purpose of these quizzes is to determine how well you have mastered the homework material.

Surprise Quizzes: The second kind of quiz that you will receive will be surprise quizzes based on the reading assignment for that class. You will be given a reading assignment at the beginning of each lecture. You are required to complete this reading assignment before the next lecture. You are expected to be prepared to discuss and comment on the content of the reading assignment. The surprise quizzes will be given periodically on the content of these reading assignments. Makeups will not be given for the surprise quizzes. The surprise quizzes will be designed to be easy if you have done the reading and difficult if you have not.

Note that there will be no exception to the attendance/lateness policy described above on days when a quiz is given.

8. Honor Code:

The Clemson University statement on academic integrity applies to all students in this class and will be rigorously enforced. That statement can be found at:

<http://www.clemson.edu/academics/academic-integrity/>

You are required to go to this URL and read this policy. Cheating includes giving or receiving assistance of any kind on an exam or quiz by any means. **Cheating is grounds for failure in this course. This will be strictly enforced.**

Cheating, in addition to being a violation of the university honor code, is also a violation of this syllabus.

9. Cell Phone/Laptops

All cell phones and laptops are to be turned off before the beginning of class.

10. Documentable Excuses

Missing an exam or quiz (surprise or announced) will result in zero credit, unless a valid, documented excuse is provided. A valid excuse is something which is truly beyond your control, such as a medical emergency, or an activity which is a valid part of your education and requires you to miss class. You must provide me with an official document in order for your absence to be excused. For school-related activities such as traveling with a university team, orchestra etc., you must provide me with an official letter indicating the necessity of this trip **at least one week in advance.**

Examples of documentable excuses are: medical emergencies, travel with a university-recognized team, death in your immediate family, activity in a department- or university-recognized organization (e.g. ASME, SAE ...). Examples of invalid excuses are: vacations, family activities, an airline ticket booked prior to the start of this course, a cramped schedule due to other course work, etc.

11. Grading:

The weighting of exams, quizzes and the final exam is as follows:

- Quizzes (both kinds) 20%
- Mid-Term Exams 75%
- Final Exam 5%

This course will not be graded on a curve. The letter grade you obtain in this course will be determined by computing (out of 100%), your quiz grade, exam grade, and final exam grade. The weighted average of these grades will then be translated into a letter grade according to the following schedule:

- $90\% < A \leq 100\%$
- $80\% < B \leq 90\%$
- $70\% < C \leq 80\%$
- $60\% < D \leq 70\%$
- $F \leq 60\%$

Note that the lower bound of each grade bracket is a 'greater-than' sign, not a 'greater-than-or-equal-to' sign. Hence, a grade of 89.999% is not an A, it is a B. This policy is designed to reduce conflicts over roundoff in computing grades.

12. Grader:

I will grade all surprise quizzes and exams. The announced quizzes will be graded by a graduate student grader.

13. Format for solving problems: See class web page:

http://www.ces.clemson.edu/~jsaylor/problemSolvingFormat303_2009f.pdf

14. Questions Regarding Grading:

The following procedure is to be used if you have questions or concerns regarding a grade you have received.

- Exams:
For exams, regardless of your question or concern, **there is a 24 hour waiting period before you may discuss your grading concerns with me.** Once this 24 hour waiting period has elapsed, you may do one of two things:
 - (a) If you feel that a simple error has occurred in the grading of your exam (e.g. points added up incorrectly, work that was not graded, etc.), simply come and see me during office hours, make an appointment, see me after class, etc.
 - (b) If you feel that your exam was graded unfairly, then submit it to me with a **written** statement (one paragraph is fine) of why you think the grade was unfair or inappropriate. Note that this must be done in writing. Also note that comparisons to grading on another student's exam is not a rationale for a grade change. Once submitted I will consider your argument and regrade the problem. **Note that the possible outcomes of this process are an increase in your grade, a decrease in your grade, or no change in your grade.** You have one week from the day that the exam is returned to submit such a written statement.
- Quizzes:
If you feel that a mistake was made in grading a quiz, please see me after class or during office hours.

15. Course Objectives and Learning Outcomes:

See departmental description of this course at:

<http://www.ces.clemson.edu/me/studentinfo/undergrad/syllabus/ME303.pdf>

16. Students with Disabilities:

If you have a disability which requires special testing procedures, please do the following. First contact the Office of Student Disability Services and obtain a letter documenting any special needs you might have. Second, bring this letter to me during my office hours so that we may discuss any special accommodations which might be necessary. Note that if you need special testing procedures, you must provide me with a copy of the letter documenting this at least one week prior to **EACH** exam.

17. Final Exam:

The final exam for this course is on:

Thursday, December 10, 11:30AM - 2:00PM

You may confirm the date/time of the final at:

<http://www.registrar.clemson.edu/html/fallExam.htm>

COURSE OUTLINE & TENTATIVE SCHEDULE

<u>Lecture</u>	<u>Date</u>		<u>Topic (Chapter Sections)</u>
1	Aug. 19,	Wednesday	Syllabus Review, ME 203 Review.
2	Aug. 21,	Friday	ME 203 Review.
3	Aug. 24,	Monday	5.1 - 5.3
4	Aug. 26,	Wednesday	5.4 - 5.7
5	Aug. 28,	Friday	5.8 - 5.9
	ON-LINE LECTURE		5.10
6	Aug. 31,	Monday	5.11
7	Sep. 2,	Wednesday	6.1
8	Sep. 4,	Friday	6.2 - 6.3
9	Sep. 7,	Monday	6.4 - 6.5
10	Sep. 9,	Wednesday	6.6 - 6.7
11	Sep. 11,	Friday	6.8 - 6.10
12	Sep. 14,	Monday	6.11
13	Sep. 16,	Wednesday	6.12 - 6.13
14	Sep. 18,	Friday	8.1 - 8.2
15	Sep. 21,	Monday	EXAM #1
16	Sep. 23,	Wednesday	8.2 - 8.3
17	Sep. 25,	Friday	8.4
	ON-LINE LECTURE		9.1 - 9.2
18	Sep. 28,	Monday	9.2 - 9.3
19	Sep. 30,	Wednesday	9.4 - 9.5
20	Oct. 2,	Friday	9.6
21	Oct. 5,	Monday	9.7 - 9.8
22	Oct. 7,	Wednesday	10.1
23	Oct. 9,	Friday	10.2, 10.6
	Oct. 12,	Monday	Fall Break, no class.
24	Oct. 14,	Wednesday	11.1, 11.4
25	Oct. 16,	Friday	EXAM #2
26	Oct. 19,	Monday	11.5, 11.7
	ON-LINE LECTURE		12.1 - 12.3
27	Oct. 21,	Wednesday	12.3 - 12.4
	ON-LINE LECTURE		12.5 - 12.6
28	Oct. 23,	Friday	12.7 - 12.8
29	Oct. 26,	Monday	12.9
	ON-LINE LECTURE		13.1 - 13.2
30	Oct. 28,	Wednesday	13.2 - 13.3
31	Oct. 30,	Friday	13.3
32	Nov. 2,	Monday	14.1
33	Nov. 4,	Wednesday	14.2
34	Nov. 6,	Friday	Exam #3
	ON-LINE LECTURE		14.3
35	Nov. 9,	Monday	14.4
36	Nov. 11,	Wednesday	14.5
37	Nov. 13,	Friday	14.6
38	Nov. 16,	Monday	
39	Nov. 18,	Wednesday	
40	Nov. 20,	Friday	
41	Nov. 23,	Monday	
	Nov. 25,	Wednesday	Thanksgiving Holiday, no class.
	Nov. 27,	Friday	Thanksgiving Holiday, no class.
42	Nov. 30,	Monday	
43	Dec. 2,	Wednesday	
44	Dec. 4,	Friday	