

ME 186 Senior Project Spring 2004

Time and Location: MW 2:30-3:20, Votey 207

Instructor: James C. Iatridis, Ph.D.

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Office Hours: MW 4:30-5:30, or by appointment

Objectives:

An individual engineering study designed to particular interest of the student, utilizing and synthesizing the student's total mechanical engineering educational experience.

week	date	Topic	Assignments
			Assignment 1 – Presentation review
1	21-Jan	Introduction to ME186	
2	26-Jan	Informal presentations round 1	
2	28-Jan	Informal presentations round 1	
3	2-Feb	Informal presentations round 1	
3	4-Feb	Informal presentations round 1	
4	9-Feb	Informal presentations round 1	
4	11-Feb	Informal presentations round 1	
5	16-Feb	Informal presentations round 2	Assignment 2: Progress report
5	18-Feb	Informal presentations round 2	
6	23-Feb	Informal presentations round 2	
6	25-Feb	Informal presentations round 2	
7	1-Mar	Informal presentations round 2	
7	3-Mar	Informal presentations round 2	Assignment 3: Web-page update
8	8-Mar	ORS meeting – no class	
8	10-Mar	ORS meeting – no class	
9	15-Mar	Spring Break	
9	17-Mar	Spring Break	
10	22-Mar		
			Assignment 4: Draft report due in class
10	24-Mar	Peer reviews in class	
11	29-Mar		Assignment 5: Peer review
11	31-Mar		
12	5-Apr	2 students present – tentative	
12	7-Apr	2 students present	
13	12-Apr	2 students present	
13	14-Apr	2 students present	
14	19-Apr	2 students present	
14	21-Apr	2 students present	
15	26-Apr	2 students present	
15	28-Apr	2 students present	
			FINAL PAPERS DUE Friday May 7!!!
16	3-May	2 students present	
16	5-May	2 students present	
14-May Final Exam Slot -- 12:00nm			

Grading:

Class participation (i.e., attendance and questions during all presentations)	10%
Short Assignments and Progress Reports	15%
Final Written Report	50%
Final Oral Presentation	<u>25%</u>
	100%

Journals You will be required to keep a journal (if you haven't started already) to track your progress on your project, to plan, to sketch and brainstorm, etc. 3 ring or bound journals are both acceptable, but they must be neat and in chronological order.

Class time

During the first part of the semester, you will be given 10 minutes in the beginning of each class to free-write in your journal on your project. Use this time to write and/or sketch new ideas, or to refine old ideas, etc. Students will provide informal presentations during the main body of each class. During the last 5 minutes of class, you will be given 5 minutes for free writing to provide suggestions for improvement to one of the class speakers.

Assignment summary

- **Informal presentation 1 & 2:** You will make two brief presentations to the class to update us on a specific aspect and/or to pose any questions or project-related challenges to the class (10 minutes total: I recommend 7 minute presentations and 3 minutes for Q & A). These presentations will NOT be graded, however, your overall grade will be reduced by ½ grade if you fail to present twice.
- **Assignment 1: Presentation review** – Review one speaker from the ME 282 spring seminar series (Votey 209, Friday 2:30-3:30, schedule found at: <http://www.emba.uvm.edu/~iatridis/me281/>) and provide a 1 page critique briefly summarizing content (motivation, methods, results, conclusions). You must also evaluate speaking style, methodology chosen, and whether or not results support conclusion. Must be submitted within 1 week after the presentation was given and not later than April 30th.
- **Assignment 2: Progress report.** This progress report is intended to be short and to provide a succinct statement of achievements from the past month, goals for the next month, 1 month time schedule, necessary modifications from original plan, and statements of peer review – due February 16th
- **Assignment 3: Web-page update.** You must update your web-page and email the instructor the URL and a note stating that the page is updated – due March 3rd.
- **Assignment 4: Draft final report.** One copy of your draft final report must be submitted to your advisor (electronic or paper, advisor's preference). A second copy (must be paper) of your draft final report must be brought into class on March 24th and submitted to your peer for review. You and your peer will spend the entire class reviewing your each others' report and will provide written feedback. This draft report will NOT be graded, however, your overall grade will be reduced by ½ grade if you fail to show the instructor your draft report -- due March 24th.
- **Assignment 5: Peer review.** You will submit 1 copy your peer review to the instructor, and 1 copy of your peer review directly to your peer. Due March 29th.
- **Final Report:** You will submit one copy of your final report to the instructor, and a second copy of your final report to your advisor. Due Friday May 7th by 5:00pm – NO EXCEPTIONS.
- **Final oral presentation: 20 minute presentation with 5 minutes for Q & A.** The student is responsible for inviting their advisor to their presentation. Attendance is mandatory for all presentations.