1 Catalog Description

None.

2 Credit Hours

3

3 Prerequisites

Graduate/Senior standing in Mechanical Engineering. (Assumes undergraduate exposure to calculus, and ordinary differential equations, and to some Fourier series, Laplace transforms, and linear algebra.)

4 Textbooks


5 Instructor

Dr. Leon Van Dommelen:

Office hours M 11:00-12:00, R 10:30-11:30 am in A242 CEB\(^1\)

Phone (850) 410-6324. I tend to forget to check my voice mail.

E-mail dommelen@eng.fsu.edu


Contact information See web page\(^2\)

6 Teaching Assistant

None

\(^1\)[http://www.eng.fsu.edu/~dommelen/contact](http://www.eng.fsu.edu/~dommelen/contact)

\(^2\)[http://www.eng.fsu.edu/~dommelen/contact](http://www.eng.fsu.edu/~dommelen/contact)
7 Schedule

Class times: MWF 9:40-10:30 am in A125 CEB (A building).
Tentative outline: first time this class is taught from the listed text books. We will start with vector analysis, then proceed to PDE.

- 01/08/07 M
- 01/10/07 W
- 01/12/07 F
- 01/15/07 M Martin Luther King day.
- 01/17/07 W
- 01/19/07 F
- 01/22/07 M
- 01/24/07 W
- 01/26/07 F
- 01/29/07 M
- 01/31/07 W
- 02/01/07 F
- 02/05/07 M
- 02/07/07 W
- 02/09/07 F
- 02/12/07 M
- 02/14/07 W
- 02/16/07 F
- 02/19/07 M
- 02/21/07 W Mid Term Exam
- 02/23/07 F Last day to drop.
- 02/26/07 M
- 02/28/07 W
- 03/02/07 F
- 03/05/07 M Spring Break
- 03/07/07 W Spring Break
• 03/09/07 F Spring Break
• 03/12/07 M
• 03/14/07 W
• 03/16/07 F
• 03/19/07 M
• 03/21/07 W
• 03/23/07 F
• 03/26/07 M
• 03/28/07 W
• 03/30/07 F
• 04/02/07 M
• 04/04/07 W
• 04/06/07 F
• 04/09/07 M
• 04/11/07 W
• 04/13/07 F
• 04/16/07 M
• 04/18/07 W
• 04/20/07 F
• 04/23/07: Final Tuesday 3-5 pm (Tuesday 4/23/2007 may not exist.)
• 05/02/07: Grades available online

8 Goals
This course will familiarize students with applications of vector calculus and partial differential equations in mechanical engineering.

9 Course Outline
See the tentative schedule in section 7 above.

10 Methods of Instruction
Lectures, problem solving sessions, examinations.
11 Student Evaluation

The course grade will be computed as:

- Homework: 20%
- Midterm: 40%
- Final: 40%

Grading is at the discretion of the instructor.

12 Important Regulations

Must check dates

Immediately check all dates listed in this syllabus for any conflicts.

Honor policy

Students are expected to uphold the Student Code of Conduct, Academic Honor Code published in their University Bulletin and/or Student Handbook. You must read your honor policy if you have not yet done so. Violations of your honor code may result in reduced grades and more serious actions.


The Florida State University Academic Honor Policy outlines the University’s expectations for the integrity of students’ academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to “...be honest and truthful and ...[to] strive for personal and institutional integrity at Florida State University.” (Florida State University Academic Honor Policy3.)

Homework

Homework should be neat.

Working together on homework is encouraged, but copying is not allowed.

Homework must be handed in at the start of the lecture at which it is due. It may not be handed in at the departmental office or at the end of class. Homework that is not received at the start of class on the due date listed above cannot be made up unless permission to hand in late has been given before the homework is due, or it was not humanly possible to ask for such permission before the class. If there is a chance you may be late in class, hand the homework in to the instructor the day before it is due. (Shove it under his door if necessary.) This also applies to Web students: they must E-mail the homework before the time the class starts.

Copying

Copying of homework, assignments, or tests is never allowed and will result in a failing or zero grade for the copied work, and other actions. It will also result in a failing or zero grade of the person whose work is being copied if that person could reasonably have prevented the copying.

However, working together is typically allowed and encouraged for most homeworks, (and sometimes for other take-home assignments,) as long as you present the final results in your own words and using your own line of reasoning. Since close similarities between solutions will reduce credit, it is better not to formally put down anything until you have figured out the problem, and then let each person write their own solution. If it is unclear whether working together is allowed on any assignment, check with the instructor beforehand.

3http://www.fsu.edu/~dof/forms/honorpolicy.pdf
Attendance

Excused Absences: Absence for participation in recognized university activities, properly certified personal illness, or recognized emergencies may be excused by the Dean’s office. Please note that the College of Engineering has a restrictive interpretation of what is considered a valid excuse for an absence. If an absence is to be excused, make sure you check beforehand. In case of excused absence, the instructor will work with you to help you make up for missed time and catch up or have an I grade assigned.

The instructor will make sure that make-up tests are no simpler than the original, but he will try to make them similarly difficult. However, he cannot make allowances for increased difficulty due to the small sample size.

Unexcused Absences: An undergraduate student having more than four unexcused absences will be dropped from the course and assigned the grade F. Tests and exams missed because of unexcused absence receive the grade 0.

Daily e-mail check: Students must daily check their e-mail at the address they provided at the start of class. They must ensure that they receive an welcome e-mail at the beginning of the semester, or contact the instructor to correct their recorded e-mail address immediately. Any test, exam, or homework that the student did not know about since the student did not check their e-mail that day receives a zero grade. No exceptions.

Failure to properly complete homework, tests, assignments, etcetera due to changes in date, assignment, etcetera, that you did not know about due to unexcused absence, lateness, or inattentiveness will not be excused and cannot be made up.

Departmental

The Department’s Policy is clearly outlined at the following web location:

http://www.eng.fsu.edu/me/ugradpro/classes/policy/index.html

College

College of Engineering Undergraduate Policy: As current policy, the College does not use plus +, or minus − grades in engineering courses (page 4, COE Handbook4). A student may continue in the B.S. degree program unless one or more of the following conditions arise (page 5, COE Handbook5):

1. A grade below C in the second attempt of the same engineering course
2. More than three (3) repeat attempts in engineering courses.
3. Violation of academic honor code as defined in university bulletin or catalog
4. Use of grade forgiveness (currently available for FAMU students only) in more than two (2) courses.

ADA

Some of these rules may not apply if you fall under the Americans with Disabilities Act.

Students with disabilities needing academic accommodation should:

1. register with and provide documentation to the Student Disability Resource Center;
2. bring a letter to the instructor indicating the need for accommodation and what type.

This should be done during the first week of class.

For more information about services available to FAMU students with disabilities, contact the Office of Special Programs, Student Union #101, 599-3541, FAX 561-2169,

http://www.famu.edu/students/services/services.html

For more information about services available to FSU students with disabilities, contact the Student Disability Resource Center, 97 Woodward Avenue, South 108 Student Services Building, Florida State University, Tallahassee, FL 32306-4167, (850) 644-9566 (voice), (850) 644-8504 (TDD), sdrc@admin.fsu.edu http://www.disabilitycenter.fsu.edu

Exceptions

The instructor might waive some regulation on a case-by-case basis depending on his subjective determination of fairness and appropriateness. This will occur only under exceptional circumstances and should not be assumed. Especially, never assume that a seemingly minor regulation will be waived because the instructor has waived it in the past. A second appeal to waive a minor regulation will probably indicate to the instructor that the regulation is not being taken seriously and most likely refused. Any appeal to the instructor will further be refused a priori unless it is made at the earliest possible moment by phone and/or by E-mail. Do not wait until you are back in town, say.

Change policy

This syllabus is a guide for the course and is subject to change without advanced notice.

13 Computer Requirements

Students must have an E-mail address and daily check their E-mail. Students must be able to use a Web browser such as Netscape. The class web page can be accessed at:

http://www.eng.fsu.edu/~dommelen/courses/aim2