Vv255 Applied Calculus III

Introduction

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University of Michigan - Shanghai Jiaotong University
Joint Institute

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Course Introduction

Vv255 Applied Calculus III generally talks about the following topics in the field of multi-variable calculus:

- Vectors, Matrices and Linear equations and their respective operations
- Parametric Equations & Vector-valued functions
- Arc length and Curvature
- Directional derivatives and Gradient vector
- Double & Triple integrals in different coordinate systems and their applications
- Vector fields, line integrals and surface integrals
- Curl and divergence

Office Hours, TAs, Emails

- Instructor: Prof. Jing Liu
  - Email: stephen.liu@sjtu.edu.cn
  - Office Hour: Tuesday and Thursday (2pm – 4:30pm) in Room 204 or by appointment.
- Teaching Assistants:

Name	Email	Recitation Session
HOU Yijun	susan57@sjtu.edu.cn	Thur. 18:20 – 20:00
LIU Xieyang	michael.liu@sjtu.edu.cn	Fri. 12:10 – 13:50
LU Yuchen	lyc1102@sjtu.edu.cn	Mon. 18:20 – 20:00
QIAN Junqi	kyle1994@sjtu.edu.cn	Wed. 18:20 – 20:00

The office hour of each TA will be the last 40 minutes of each recitation session.

Coursework Policy

The following applies mostly to the paper-based homework at the beginning of this term:

- Hand in your coursework on time, by the date given on each set of course work. Late work will not be accepted unless valid reasons are provided prior to the due date of each set of course work.
- Please write your course work neatly and legibly. Your marks could be deducted if you failed to hand in a neat and readable assignment solution.
- You are encouraged to provided your *Matlab* codes (Yes, *Matlab*. Do you miss it?) along with your computer-generated images or results of any form in the solution. Though not counted as bonus of any form, it will greatly help the TAs to better examine your *Matlab* skills.

Use of Wikipedia and Other Sources; Honor Code Policy

When faced with a particularly difficult problem, you may want to refer to other textbooks or online sources such as Wikipedia. Here are a few guidelines:

- Outside sources may treat a similar sounding subject matter at a much more advanced or a much simpler level than this course. This means that explanations you find are much more complicated or far too simple to help you. For example, when looking up the "divergence" you may find many high-school level explanations that are not sufficient for our problems; on the other hand, wikipedia contains a lot of information relating to formal logic that is far beyond what we are discussing here.
- If you do use any outside sources to help you solve a homework problem, you are not allowed to just copy the solution; this is considered a violation of the Honor Code.

Use of Wikipedia and Other Sources; Honor Code Policy (cont.)

- The correct way of using outside sources is to understand the contents of your source and then to write in your own words and without referring back to the source the solution of the problem. Your solution should differ in style significantly from the published solution. If you are not sure whether you are incorporating too much material from your source in your solutions, then you must cite the source that you used.
- You may cooperate with other students in finding solutions to assignments, but you must write your own answers. Do not simply copy answers from other students. It is acceptable to discuss the problems orally, but you may not look at each others' written notes. Do not show your written solutions to any other student. This would be considered a violation of the Honor Code.

Use of Wikipedia and Other Sources; Honor Code Policy (cont.)

In this course, the following actions are examples of violations of the Honor Code:

- Showing another student your written solution to a problem.
- Sending a screenshot of your solution via QQ, email or other means to another student.
- Showing another student the written solution of a third student; distributing some student's solution to other students.
- Viewing another student's written solution.
- Copying your solution in electronic form (codes, PDF, JPG image etc.) to the computer hardware (flash drive, hard disk etc.) of another student. Having another student's solution in electronic form on your computer hardware.

Course Grade

- Quiz (5%)
- Assignment (20%)
- Midterm Exam 1 (25%)
- Midterm Exam 2 (25%)
- Final Exam (25%)

The grade will be curved to achieve a median grade of "B".

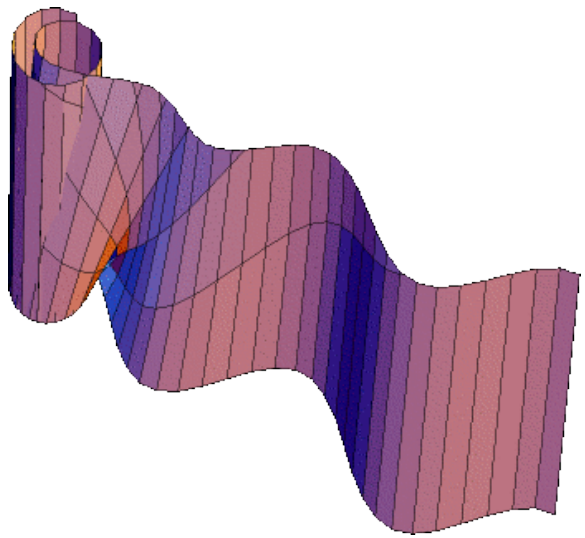
Well, ...

Course Grade (cont.)

	Teacher	Title	CourseArragementID	CreditHour	PlannedNum	Min Num	CurrentNum	ConfirmedNum
○	Liujing		002-(2014-2015-2)VV255	60	120	10	195	193

Take care of yourselves.

Surprise!



No pains, no gains.
And stop day-dreaming, no surprises will fall out of the sky.