

Multivariate Calculus: Syllabus

Samy Tindel

Purdue University

Multivariate Calculus - MA 261

Outline

1 Presentations

2 Ground rules

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My Purdue information

History:

- 8th year as Professor at Purdue
- Before that: in Nancy (France)

Office: 434, Math building

Email: stindel@purdue.edu

Office hours: Friday 11:30am-1pm

Webpage: <https://www.math.purdue.edu/stindel/>



Advertising Multivariate Calculus

Multivariate Calculus:

- Challenging from a mathematical point of view.
- Crucial for modeling in many areas.

Great names related to the field:

- Lagrange
- Stokes
- Green
- Gauss

Brief outline of the course

Chapters covered: from Briggs-Cochran-Gillett-Schulz' book
↔ *Calculus: Early Transcendentals*

- 1 Vectors and the Geometry of Space
- 2 Vector-Valued Functions
- 3 Functions of Several Variables
- 4 Multiple Integration
- 5 Vector Calculus

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Webpage

Course webpage (also accessible from Brightspace):

<https://www.math.purdue.edu/stindel/teaching/ma261/ma261.html>

Contents:

- Announcements
- Schedule
- Slides
- Written notes from class

Additional resource:

- BoilerCast recordings available on Brightspace

Book

Book name again: Calculus, Early Transcendentals, Third Edition
↪ by Briggs, Cochran, Gillett, and Schulz; published by Pearson.

Needed access: to MyLab Math.

- Access is through Brightspace
- There is a two-week trial period for the MyLab Math account. After that you will have to pay the (nonrefundable) access fee
- The physical textbook is NOT required. MyLab Math gives you access to the ebook
- You may purchase MyLab Math access directly from Pearson
↪ during your two-week trial period.

Supplemental instruction

Available SI sessions:

| Name | Course | Session 1 | Session 2 | Session 3 | Office Hour |
|--------------|--------|--------------------------------|---------------------------------|----------------------------------|---------------------|
| Mark Zhang | MA 261 | Monday, 6:30 - 7:20, WALC B091 | Tuesday, 6:30 - 7:20, WALC B091 | Thursday, 6:30 - 7:20, WALC B091 | Monday @ 12:30 PM |
| Anna Szakats | MA 261 | Sunday, 5:30 - 6:20, WILY C215 | Tuesday, 5:30 - 6:20, ME 1006 | Thursday, 5:30 - 6:20, ME 1006 | Thursday @ 10:30 AM |

Information about SI:

- Study groups are open to anyone enrolled in this course.
- Attendance at these sessions is voluntary, but extremely beneficial for those who attend regularly.
- Students who attend these interactive sessions will find themselves working with peers.
- Students are asked to arrive with their student ID card, lecture notes and questions to these informal, peer-led study sessions.

Emails

About emailing me:

- I do my best to answer emails
- However, I am not always very quick at answering them
- You might be redirected to your TA or Andrey Glubokov

More rules

Access to the main rules:

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