

Math 213-003 Analytic Geom/Calculus III, Spring 2020

Lectures: TR: 12 - 1:15 pm, Planetary Hall 129.

Recitations:

- 307 W: 10:30-11:20
- 308 W: 11:30-12:20
- 309 W: 12:30-1:20

Lecturer: Dr. E. Sander, Exploratory Hall, Rm 4408, esander@gmu.edu

Office Hours: TR: 4:45-5:45

Teaching Assistants: TBA

Office Hours: Will be posted on Blackboard

Learning Assistants: Colin Chung and Chloe Ham

Office Hours: Will be posted on Blackboard

Prerequisite: Undergraduate level MATH 114 Minimum Grade of C; or Undergraduate level MATH 114T Minimum Grade of T; or Undergraduate level MATH 116 Minimum Grade of C. Prerequisite(s) enforced by registration system.

Course Text: *Thomas' Calculus, Early Transcendentals, 14th edition, by J. Hass, C. Heil, M.D. Weir (Pearson, 2018)*

We will be covering textbook Chapters 12-16.

Course goals: This course covers partial differentiation, multiple integrals, line and surface integrals, and three-dimensional analytic geometry.

Ungraded Homework: [Here is a list of the problems assigned.](#) Although these will not be collected, success in this class depends strongly on completing and understanding these problems. Working together on ungraded homework is encouraged but each student is ultimately responsible for understanding the material.

Quizzes: There are weekly quizzes and two exams given on the dates mentioned in the tentative schedule below. All changes will be announced on Blackboard. Quizzes occur during the recitations, and exams occur during lecture. **Each quiz covers the material from the previous week.**

Attendance and Participation: During every lecture you will answer collaborative open book open notes **in class questions**. You will turn these in to be graded. Make sure to bring paper and a pencil or pen.

Recitations and TAs: Each student must be registered in the recitation section associated with this class. The recitation is taught by a TA. .

Tutoring Center: Help is available (free of charge) in the Math Tutoring Center, <http://math.gmu.edu/tutor-center.php>, located in the Johnson Center room 344. Hours are posted on the Tutoring Center website. Help is available on a walk-in basis. I cannot emphasize enough how useful students find the Tutoring Center.

Tips for success in this class:

- Attend class, be on time, and pay attention. This is also a courtesy to other students!
- Read the book, and do all assigned homework. This should take **10 hours a week outside of class**.
- Ask for help:
 1. Instructor office hours
 2. TA office hours
 3. LA office hours
 4. Tutoring Center

Grading: Your grade will be based on quizzes, *where two quizzes are dropped* (100 points scaled score), two exams (100 points each), a final exam (170 points), attendance/participation (30 points), *where two in class questions are dropped*. In general, 90%-100% = A, 80%-89% = B, 70%-79% = C, 60%-69% = D, below 60% = F. Plus and minus grades will be approximately 2 or 3 percentage points above or below these boundaries (e.g. 88% would correspond to a B+). I reserve the right to lower the curve, but will not raise the curve.

Missed work: Makeup exams, quizzes, and in class questions will not be given. In the event that one exam is missed and (1) a valid, documented excuse is given in writing to the instructor at the time of the absence and (2) the student provides sufficient evidence to

the instructor that he/she is keeping up with the topics in the course, the final exam score will count in place of the missed exam. The instructor will determine whether an excuse is valid (for example, a medical emergency would constitute a valid excuse but leaving early for vacation is not a valid excuse). Without a valid documented excuse given at the time of the exam, a missed exam will count as a zero. If more than one midterm exam is missed, that situation will be dealt with on an individual basis.

Calculators: Calculators will be treated as devices to assist in learning and understanding calculus but not as a replacement for knowing and remembering calculus. Therefore, **no calculators or other electronic devices are allowed during either quizzes or exams.**

Blackboard: This class will be using Blackboard. Other than this syllabus, all handouts or information will be on Blackboard.

Honor Code: It is expected that students in this class will conduct themselves within the guidelines of the Honor Code. All academic work should be done with the level of honesty and integrity that this University demands. Any violations will be sent to the Honor Committee and will result in a grade of zero. **Sharing information of any kind about exams or quizzes is prohibited. Use of electronic devices during exams and quizzes is prohibited.**

Office of Disability Services If you are working with ODS, make sure to inform me and bring me all paperwork well over a week before the first test or quiz for which this is relevant.

Course Schedule

This schedule is tentative. All changes will be announced on Blackboard. **See the homework sheet for the assignments for the sections listed.**

Week	Dates of Week	Lecture Sections Covered	Test	Test Sections Covered
1	1/20-1/26	12.1, 12.2, 12.3	Calculus 2 Review	Review sheet
2	1/27-2/2	12.4, 12.5, 12.6	Quiz 1	12.1, 12.2, 12.3
3	2/3-2/9	13.1, 13.2, 13.3, 13.4	Quiz 2	12.4, 12.5, 12.6
4	2/10-2/16	13.4, 14.1, 14.2	Quiz 3	13.1, 13.2, 13.3
5	2/17-2/23	14.3, 14.4, 14.5	Quiz 4	13.4, 14.1, 14.2
6	2/24-3/1	14.6, 14.7	Exam 1: Thursday 2/27	12.1-6, 13.1-4, 14.1-5
7	3/2-3/8	14.7, 15.1	Quiz 5	14.5, 14.6
8	3/9-3/15	Spring Break	No class	No class
9	3/16-3/22	15.2, 15.3	Quiz 6	14.7, 15.1
10	3/23-3/29	15.4, 15.5, 15.7	Quiz 7	15.2, 15.3
11	3/30-4/5	15.8, 16.1, 16.2, 16.3	Quiz 8	15.4, 15.5, 15.7
12	4/6-4/12	16.3, 16.4	Exam 2: Thursday 4/9	14.6-7, 15.1-5, 7-8, 16.1-2
13	4/13-4/19	16.5, 16.6	Quiz 9	16.3, 16.4
14	4/20-4/26	16.7, 16.8	Quiz 10	16.5, 16.6
15	4/27-5/3	Review	Review Sessions throughout week	All sections covered in the semester
Fin	5/7	Final Exam Thurs. 5/7 10:30 am - 1:15 pm	Cumulative exam	All sections covered in the semester