
Math 233 (005): CALCULUS AND ANALYTIC GEOMETRY III

Spring 2018

Department of Mathematical Sciences, UWM

Lecture Time

3:00 PM - 4:50 PM, Monday and Wednesday, EMS Building, Room E208

Instructor:

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Office Hours: 10:30 AM – 11:30 AM, Monday and Wednesday

Textbook

Essential Calculus, by James Stewart, 2nd Edition, Brooks/Cole, March 2012, ISBN-9781133112297.

Prerequisite

Grade of C or better in Math 232. Note: Students who do not meet prerequisites according to PAWS will be dropped at noon, Monday January 29th.

Course Overview

- Chapter 10. Vectors and the geometry of space.
- Chapter 11. Partial derivatives.
- Chapter 12. Multiple integrals.
- Chapter 13. Vector calculus. Sections 13.5 to 13.9 are optional.

Grading

- Test 1: 20 %.
- Test 2: 20 %.
- Six quizzes: 20% (3% for Quiz 1 to 4 and 4% for Quiz 5 to 6).
- Five homework evaluations: 5% (1% each).
- Final Exam: 35 %.

Grading scale: A (93-100), A- (90-92), B+ (86-89), B (80-85), C+ (76-79), C (70-75), D (60-69), F (below 59).

Important Dates

- January 22: First day of classes.

- _ January 29: Last day to add a class in the Math Department.
- _ February 14: **Test 1** (for Chapter 10).
- _ February 16: Last day to drop without "W" on academic record.
- _ March 18-25: Spring Break.
- _ March 28: **Test 2** (for Chapter 11).
- _ April 8: Last day to drop. No student may drop after April 8 for academic reasons.
- _ May 10: Last day of classes.
- _ May 14: **Final Exam**: 10:00-12:00 Noon (Comprehensive while focusing on Chapters 12 and 13) on EMS E208.

Homework Assignments

10.1	1-10 all, 11-19odd, 21-34all	11.7	1-13 odd, 31, 33, 37, 39, 41, 43
10.2	1-25 all, 27, 28, 29, 35, 37	11.8	1-19 odd
10.3	1-32all, 35, 37, 39	12.1	1, 7-27 odd, 29-35 odd
10.4	1-44 all	12.2	1-31 odd, 37-47 odd
10.5	1-45 odd	12.3	1-4 all, 5-29 odd
10.6	N/A	12.4	N/A
10.7	1-15 odd, 17-22 all, 23-52odd, 59-67odd	12.5	1-19 odd, 25-39 odd
10.8	1-25 odd, 39-42all, 45, 47	12.6	1-29 odd
10.9	1-19 odd, 31, 36	12.7	1-27 odd, 37-39
11.1	1-36 odd, 41-51all	12.8	N/A
11.2	1-16all, 19-31odd	13.1	1-9 odd, 11-18 all, 21-26 all
11.3	1-61 odd	13.2	1-21 odd, 27, 31
11.4	1-6all, 11-17all, 21-33all	13.3	1-19 odd
11.5	1-29 odd, 33, 37, 41	13.4	1, 3, 7, 9
11.6	1-18 all, 20, 21, 31-36all		

Homework is a tool for learning and should be done regularly to practice the concepts discussed in class. The problems listed in the above table comprise the minimum amount of homework that should be completed. Homework will be collected for evaluations. Some homework problems will be selected for quizzes.

Additional Information

- _ Texting and photo-taking are not permitted during class time. Cell phones and smart watches should be turned off.
- _ Prior to each class, each student should read the sections of the textbook that will be covered in that class. The problems listed on the syllabus comprise the minimum amount of homework that should be attempted.
- _ Books, notes, and calculators/computers are NOT allowed in all the examinations and quizzes.

- No makeup for the examinations and quizzes except for exams missed for religious observance, military service, or illnesses (with a documented medical emergency).
- INCOMPLETES: In order to be given an incomplete, all of the following conditions should be met:
 - You are already passing the course with the work that has been completed;
 - You have only a “little” work to be finished; and,
 - You can give substantiation of illness or other unusual non-academic circumstances beyond your control that have prevented you from completing the course on time.
- Room changes and cancellations are valid only if posted outside the classroom door on Math Department letterhead and sent via email.
- Tutoring is available in the *Calculus Workshop* in Physics 326 & 328. Drop in and find a quiet place to study, do homework with peers from other sections, find tutors, meet with faculty, and fully engage in studying and learning the Calculus! Hours are posted here: <http://uwm.edu/math/undergraduate/resources/tutoring/>
- Students with disabilities or who qualify for accommodations (VISA) should contact me early in the semester to discuss the assistance they may need.
- The minimum amount of time that an average student should expect to invest to successfully complete this course includes: 50 hours in class; 8 hours taking quizzes, tests and exams; 100 hours completing homework assignments; 35 hours studying for assessments. Total: 193 hours.

Statement of Academic Misconduct

The university has a responsibility to promote academic honesty and integrity and to develop procedures to deal effectively with instances of academic dishonesty. Students are responsible for the honest completion and representation of their work, for the appropriate citation of sources, and for respect of others' academic endeavors. Further information can be found at

<http://uwm.edu/academicaffairs/facultystaff/policies/academic-misconduct/>.

Other important university policies

They can be found here: <http://uwm.edu/secu/wp-content/uploads/sites/122/2016/12/Syllabus-Links.pdf>.