

MATH 231 – CALCULUS & ANALYTIC GEOMETRY I – SYLLABUS – Fall 2017

MATH 231 – 25269 – SECTION 013 – TR 2:00-3:50 PM – ROOM EMS E145

Textbook: *Essential Calculus (2nd Edition)*, by James Stewart.

Instructor: Xianghong Chen, PhD

Email: chen242@uwm.edu

Office: EMS E490; (414) 229-4933

Office Hours: R 4:00-5:00 PM, F 1:00-2:00 PM

PRE-REQUISITES: Math Placement Level A, or any of the following

A Math Placement Test Code of 40

A score of 61 or higher on the CLEP Precalculus Exam

A grade of C or better in Math 115

A grade of C or better in both Math 116 and Math 117

A grade of C or better in both Math 211 and Math 117

A grade of C or better in Math 116 and Math Placement Test Code 36

A grade of C or better in Math 117 and Math Placement Test Code 35

A grade of C or better in Math 211 and Math Placement Test Code 36

IMPORTANT DATES:

Tuesday, Sept 5 First day of classes

Monday, Sept 18 Last day to change among credit/no credit/audit status in PAWS

Monday, Oct 2 Last day to drop without a "W" (Withdrawn) on your record

Friday, Oct 27 Last day to drop (no student may drop after Oct 27 for academic reasons)

Thursday, Dec 14 Last day of classes

Friday, Dec 15 Study Day

Tuesday, Dec 19 Comprehensive Final Exam - 7:30-9:30 AM, PHY 120

GRADING:

Homework	15%
Gateway Exams	15%
Two Midterm Exams	20% each
<u>Final Exam</u>	<u>30%</u>
Total	100%

GRADING SCALE:

100-93	92-90	89-87	86-83	82-80	79-77	76-73	72-70	69-67	66-63	62-60	59 or below
A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F

There are four Gateway Exams. Each exam will be given once in class. The exams are graded with no partial credit, and must be passed with a score of 80% or better (otherwise your maximum possible grade in this class will be a "C-"). Gateways may be retaken, once per day (Monday-Friday), in the Gateway Testing Center in PHY 330. All retakes should be completed within one week of the return of the in-class test. Only the highest grade on each Gateway Exam counts toward the final grade.

The Gateway Exams, the two midterm exams, and the comprehensive final exam are closed book, no notes, no calculator. No makeups will be given except for tests missed for religious observance, military service, or documented medical emergency. Homework will be assigned weekly on WebWork. The lowest two homework scores will be dropped.

Prior to each class, you should read the sections of the textbook that will be covered that day. The course covers a lot of material quickly. It is important to keep up. If you find yourself falling behind or getting confused, act immediately to catch up. Take advantage of the instructor's office hours as well as other campus resources.

Course Outline (Subject to change)

Week 1	Sept 4-8	Sections 1.1, 1.2,
Week 2	Sept 11-15	Sections 1.3, 1.4, 1.5
Week 3	Sept 18-22	Sections 1.6, 2.1; Gateway 1 (Limits)
Week 4	Sept 25-29	Sections 2.2, 2.3, 2.4
Week 5	Oct 2-6	Sections 2.5, 2.6, 2.7
Week 6	Oct 9-13	Sections 2.8, 3.1; Gateway 2 (Derivatives)
Week 7	Oct 16-20	Section 3.2; Midterm Exam One
Week 8	Oct 23-27	Sections 3.3, 3.4, 3.5
Week 9	Oct 30-Nov 3	Sections 3.6, 3.7; Gateway 3 (Graphing)
Week 10	Nov 6-10	Sections 4.1, 4.2, 4.3
Week 11	Nov 13-17	Sections 4.4, 4.5, 5.2
Week 12	Nov 20-21	Section 5.3; Gateway 4 (Integration); Thanksgiving
Week 13	Nov 28-Dec 1	Midterm Exam Two; Sections 5.4, 5.5
Week 14	Dec 4-8	Sections 5.1, 5.6
Week 15	Dec 11-14	Section 5.7; Review
Final Exam	Dec 19	Tuesday Dec 19, 7:30-9:30 AM, Room TBD

Suggested Homework Problems (o=odd; eoo=every other odd)

1.1	1-7, 19-29o, 33, 35, 39, 41, 57-59, 61, 63	3.4	1-33eoo, 39, 41
1.2	1-17 eoo, 19, 23-43eoo, 47, 49, 55abc,59	3.5	3, 5, 7, 9, 11, 15, 17, 25, 32-56 any 5
1.3	3-9o, 29-37o,	3.6	1-7
1.4	1, 11-27o, 33, 44, 49-55o	3.7	1-13o, 17-33eoo, 35-45o
1.5	3-5, 7, 13-23o, 27-33o, 39-42	4.1	1-15o
1.6	1-7o, 13-33eoo, 41, 43, 45, 49b	4.2	1, 7, 9, 11, 15-25o, 29-45o
2.1	1, 3-6, 9, 11, 15, 19, 21, 25-35o, 37-45o	4.3	1-29o, 31, 33, 37, 39, 43-49o, 50-66 any 4
2.2	1-15o, 19-23o, 33, 35, 39, 41	4.4	1-21o
2.3	1-43eoo, except 29, 47-57o, 61	4.5	1-47o
2.4	1-29o, 33-43o, 51, 53	5.1	1-25o, 33-41o
2.5	7-41eoo, 43-47o, 51, 53, 63, 67	5.2	1-41o, 45, 51-61o
2.6	1-15o, 19-27o, 35, 37, 39, 45	5.3	1-37o, 41, 43, 45, 49, 51, 61-69o
2.7	1-7o, 9, 13, 15, 21, 23, 27, 31, 37, 39	5.4	1-9o, 23-37o, 41-45o
2.8	1-4, 11, 13, 19, 21, 23	5.5	3, 9, 13, 19
3.1	1-43o, 45, 57o	5.6	1-6, 17-31o, 33, 35, 39-47o
3.2	1-11o, 15-25o	5.7	1-19o, 25, 27-41o, 44, 45, 47, 53-61o
3.3	1-35o, 37, 41, 43		

INCOMPLETES: In order to be given an incomplete, all of the following conditions should be met:

- a) You are already passing the course with the work that has been completed;
- b) You have only a "little" work to be finished; and,
- c) 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.

Other pertinent information:

1. Room changes and cancellations are valid only if posted outside the classroom door on Math Department letterhead and sent via email.
2. Students with disabilities or who qualify for accommodations (VISA) should contact me early in the semester to discuss the assistance they may need.
3. Texting is not permitted during class time. Cell phones and smart watches should be turned off.
4. 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.
5. Drop-in tutoring is available in the East Wing of the library. Hours are posted here: <http://uwm.edu/math/undergraduate/resources/tutoring/>
6. The **Calculus Workshop** is located 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!
7. Drop-in tutoring is available in the Calculus Workshop in Physics 326 & 328. Hours are posted here: <http://uwm.edu/math/undergraduate/resources/tutoring/>
8. 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/>
9. Other important university policies can be found here: <http://uwm.edu/secu/wp-content/uploads/sites/122/2016/12/Syllabus-Links.pdf>