



COURSE SYLLABUS

Course Number MATH 113-006	Course Title Analytic Geometry and Calculus I	
Fall Semester	2017	
Instructor: <i>Gabriela Bulancea</i> TA: Taylor Stevens (tsteven8@masonlive.gmu.edu)		
Meeting Day, Time, and Room Number Lectures: MW 12:30 PM – 2:20 PM, Robinson Hall B104/ Recitations: Friday		
Final Exam Wednesday, December 13, 2017, 1:30 PM- 4:15PM		
Office Hours, Location, Phone MW 10:30-11:30 AM, TR 11:00AM – 12:00PM Exploratory Hall, Room 4217 , or by appointment		
E-mail gbulance@gmu.edu email is the best way to reach me		

Textbook: *Calculus: Early Transcendentals*, second edition by Briggs, Cochran, and Gillett, 2015
The textbook bundled with a MyMathLab access code can be purchased in the campus bookstore.

Prerequisites: C or better in MATH 104 or MATH 105 or specified score on math placement test.

Broad purpose of the course: Upon successful completion of this course, students will be expected to have an understanding and good working knowledge of the concepts of limits, derivatives and integrals of functions (polynomial, rational, exponential, logarithmic, trigonometric).

Technology: We will be using the iClicker technology and the online homework system MyMathLab associated with the textbook. We will also use of the computational software program Mathematica which you can download (free of charge) from <http://computing.cos.gmu.edu/mathematica/>. You can also access it in on-campus labs or 24/7 from anywhere via the Mason Virtual computing lab found at <http://www.vcl.gmu.edu/>.

Teaching and learning method: As a university student, you are responsible for your own learning. Lecture, demonstration, discussion, problem-solving, quizzes, tests, and group tasks will be used to help you learn. Class attendance and completion of assignments are expected.

In class questions: You must have your registered i>clicker with you at all lectures in order to answer the in class questions. You must have come to class at least once and voted on at least one question in order to complete the registration properly.

Lab assignments: There will be two **optional** lab assignments that will make use of the computational software program Mathematica.

Homework: Students are expected to read the sections to be covered in class prior to attending the class on that subject. There will be online homework problems @ <http://www.mymathlab.com> from each section which will be graded. Occasionally I may assign written problems from your text.

MyMathLab course id: *balancea79107* (For instructions on how to register see the handout posted on Blackboard.)

Tests: There is a tentative schedule for tests below. You are responsible for keeping up with all information announced in the classroom and on Blackboard. There will be no makeup tests. You may replace your lowest test grade with your final exam percentage. In order for this to happen **you** must write a note **above** your name on your final exam (ex. Please replace my ch 2 test grade of 0/100 with my final exam percentage).

Grading: Grades will be assigned according to the percent system given below:

- 15% Test 1 Monday, September 25
- 15% Test 2 Wednesday, October 18
- 15% Test 3 Wednesday, November 15
- 30% Final Exam
- 10% Homework
- 10% quizzes (during recitations)
- 5% i>clicker and class activities

The lowest quiz score will be dropped.

The grading scale will be:

A-: 90 - 92;	A: 92 – 98;	A+: 98 – 100
B-: 80 - 82;	B: 82 – 88;	B+: 88 – 90
C-: 70 - 72;	C: 72 – 78;	C+ : 78 – 80
D: 60 - 70;	F: 0 – 60.	

Recitations: Every student is required to enroll in and attend the recitation for this lecture of 113.

Additional Help: *The Math Tutoring Center in the Johnson Center, Room 344, offers help on a walk-in basis. See <http://math.gmu.edu> for the most current schedule.*

Schedule for Math 113-006 Fall 2017

Week of	Topic	Sections Covered
Aug 28	Chapter 1 Review, Limit of a function	2.1-2.3
Sept 4	Labor Day , Infinite Limits	2.4
Sept 11	Limits at Infinity, Continuity	2.5, 2.6
Sept 18	Derivatives: Definition, Rules of Differentiation,	3.1, 3.2, 3.3
Sept 25	Test 1 , The Product and Quotient Rules Derivatives of Trigonometric Functions, Rates of Change	3.4, 3.5, 3.6
Oct 2	The Chain Rule, Implicit Differentiation, Derivatives of Logarithmic, Exponential Functions	3.7, 3.8, 3.9
Oct 9	Monday classes meet on Tuesday Derivatives of Inverse Trigonometric Functions, Related Rates	3.10, 3.11
Oct 16	Maxima and Minima, TEST 2	4.1, 4.2
Oct 23	Graphing Functions, Optimization Problems,	4.3, 4.4
Oct 30	Linear Approximation, Mean Value Theorem, L'Hopital's Rule	4.5, 4.6, 4.7
Nov 6	Newton's Method, Antiderivatives	4.8, 4.9
Nov 13	Area and Distance, Definite Integrals, TEST 3	5.1, 5.2
Nov 20	The Fundamental Theorem of Calculus, Thanksgiving recess	5.3
Nov 27	Working with Integrals, Substitution Rule	5.4, 5.5
Dec 4	Review	

UNIVERSITY POLICIES: The University Catalog, <http://catalog.gmu.edu>, is the central resource for university policies affecting student, faculty, and staff conduct in university academic affairs. Other policies are available at <http://universitypolicy.gmu.edu/>. All members of the university community are responsible for knowing and following established policies.

Honor Code: - It is expected that each student in this class will conduct himself or herself within the guidelines of the Honor Code. Among other things, this means that sharing information of any kind about exams or quizzes (either before or during the exam) will result at a minimum in a grade of zero for all parties involved. Violations will also be reported to the university Honor committee where further consequences such as probation or expulsion from the university may be incurred. See <http://academicintegrity.gmu.edu/honorcode> for a copy of the Honor code.

Disability Services: Reasonable accommodations are available for students who have a documented disability. Please contact Disability Services if you require accommodations: Office of Disability Services, Student Union Building I (SUB I), room 4205, Phone: 703-993-2474

COUNSELING AND PSYCHOLOGICAL SERVICES (CAPS): (703) 993-2380; <http://caps.gmu.edu>

Regarding electronic devices (such as laptops, tablets, cell phones, etc.), please be respectful of your peers and your instructor and do not engage in activities that are unrelated to class. Such disruptions show a lack of professionalism and may affect your participation grade. **Cell phones shall be set to silent/vibrate and placed out of sight during class, and especially during exams and quizzes.**