



COURSE SYLLABUS

Course Number MATH 113-003	Course Title Analytic Geometry and Calculus I
Spring Semester 2018	
Instructor: <i>Gabriela Bulancea</i> TA: Robert Argus (rargus@masonlive.gmu.edu)	
Meeting Day, Time, and Room Number Lectures: MW 12:30 AM – 2:20 PM, Planetary Hall 129/ Recitations: Tuesday	
Final Exam Monday, May 14, 2018, 10:30 PM- 1:15PM	
Office Hours, Location, Phone MW 2:30-3:15 pm, T 11:30 am – 2 pm 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 <https://cos.gmu.edu/mathematica/>.

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: balancea26457 (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 Wednesday, February 14

15% Test 2 Wednesday, March 21

15% Test 3 Wednesday, April 11

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 113-003 Spring 2018

Week of	Topic	Sections Covered
Jan 22	Limit of a function	2.1-2.3
Jan 29	Infinite Limits, Limits at Infinity	2.4, 2.5
Feb 5	Continuity, Derivatives: Definition	2.6, 3.1, 3.2
Feb 12	Rules of Differentiation, The Product and Quotient Rules Test 1 (1.1-1.4, 2.1-2.5)	3.3, 3.4
Feb 19	Derivatives of Trigonometric Functions, Rates of Change	3.5, 3.6
Feb 26	The Chain Rule, Implicit Differentiation, Derivatives of Logarithmic, Exponential Functions	3.7, 3.8, 3.9
Mar 5	Derivatives of Inverse Trigonometric Functions, Related Rates	3.10, 3.11
Mar 12	Spring Break	
Mar 19	Maxima and Minima, TEST 2 (2.6, 3.1 - 3. 10)	4.1, 4.2
Mar 26	Graphing Functions, Optimization Problems,	4.3, 4.4
Apr 2	Linear Approximation, Mean Value Theorem, L'Hopital's Rule	4.5, 4.6, 4.7
Apr 9	Newton's Method, TEST 3 (3.11, 4.1 -4.5)	4.8
Apr 16	Antiderivatives, Area and Distance, Definite Integrals,	4.9, 5.1, 5.2
Apr 23	The Fundamental Theorem of Calculus, Working with Integrals,	5.3, 5.4
Apr 30	Substitution Rule, Review	5.5

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.**

