COURSE SYLLABUS

Course Number MATH 114 – 004	Course Title Analytic Geometry and Calculus II
Spring Semester 2020	
Instructor: *Gabriela Bulancea* **TA: Heath Camphire**	
Meeting Day, Time, and Room Number **TR 10:30 am – 12:20 pm, R B104**	
Final Exam **Thursday, May 7, 10:30 am - 1:15 pm**	
Office Hours, Location, Phone **MW 1:30 - 3:30 pm, Exploratory Hall, Room 4217, or by appointment**	
E-mail **gbulance@gmu.edu email is the best way to reach me**	

Textbook: *Thomas' Calculus (Early Transcendentals)* by Hass, Heil and Weir (fourteenth edition, Pearson publisher). We cover most of Chapters 6 to 11. We will also use MyMathLab from Pearson, which comes bundled with the book in the various formats.

Prerequisites: C or better in Calculus I (MATH 113).

Broad purpose of the course: At the end of the semester the student should be able to use various techniques of integration, and understand infinite series and power series, conic sections, parametric curves.

Technology: : We will be using the iClicker technology and the online homework system MyMathLab associated with the textbook.

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.

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

MyMathLab course id: *bulancea67122 (For instructions on how to register see the handout posted on Blackboard.)*

In class questions: You must have your device on which you downloaded the iClicker Reef app or your iClicker remote with you at all lectures in order to answer the in-class questions. If you are using the remote, you must have come to class at least once and voted on at least one question in order to complete the registration properly.

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.

Class participation: There will be daily in class activities, your work in class will account for 5% of the final grade.

Grading: Grades will be assigned according to the percent system given below:
20% Test 1 Thursday, February 13
20% Test 2 Thursday, March 19
20% Test 3 Thursday, April 16
25% Final Exam, Thursday, May 7
5% Homework
5% Recitation
5% iClicker activities and class participation

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.

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 114 Spring 2020

Week of	Sections Covered	Topic
Jan 20	Review Chapter 5, 6.1	Volume by Slicing
Jan 27	6.2, 6.3	Volume by Shells, Length of Curves;
Feb 3	6.4, 6.5, 6.6	Surface Area, Physical Applications
Feb 10	7.1, 7.2, *Test 1*	Logarithmic and Exponentials Functions
Feb 17	7.3, 7.4, 8.2	Hyperbolic Functions, Integration by Parts
Feb 24	8.3, 8.4	Trigonometric Integrals ,Trigonometric Substitutions
March 2	8.5, 8.6, 8.7	Partial Fractions, Other Integration Strategies, Numerical Integration
March 9	Spring break	
March 16	8.8, *Test 2*	Improper Integrals
March 23	9.1, 9.2, 10.1, 10.2	Introduction to Differential Equations, Sequences
March 30	10.2, 10.3, 10.4	Infinite Series, Convergence Tests
April 6	10.5, 10.6, 10.7	Convergence Tests, Power Series
April 13	10.7, *Test 3*	Power Series
April 20	10.8, 10.9, 10.10	Taylor Series
April 27	11.1, 11.2, 11.3, 11.6	Parametric Equations, Polar Coordinates
May 7	Final Exam	

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 it will affect your participation grade.* **Cell phones shall be set to silent/vibrate and placed out of sight when not used for class activities, and especially during exams and quizzes.**