

**FALL 2018**

**MATH 113 Analytic Geometry and Calculus I**

**Schedule:** MW 12:30-2:20pm, Planetary Hall 129, No classes on September 3 (Labor Day), October 8 (Columbus Day) and November 21 (Thanksgiving), but we meet on Tuesday October 9 (make up for Columbus Day)

**Instructor:** Igor Griva, [igriva@gmu.edu](mailto:igriva@gmu.edu), (703) 993-4511

**Office hours:** W 2:30 - 3:30 pm, W 10 - 11 pm, Exploratory Hall, Rm 4114

**Prerequisites:** A thorough understanding of high school algebra and trigonometry, and specified score on the Math Placement Test or a grade of C or better in MATH 105.

**Webpage:** [http://math.gmu.edu/~igriva/projects/project\\_01/index.html](http://math.gmu.edu/~igriva/projects/project_01/index.html)

**Text:** Hass, Heil and Weir, *Thomas' Calculus Early Transcendentals*, 14th Edition, Pearson, Chapters 1-5.

**My MathLab ID:** **griva66267**, [www.pearson.com/mylab](http://www.pearson.com/mylab). Click [here](#) for instructions how to enroll.

**Exams:** There are two midterm exams:

Exam 1: September 24 (points 0 - 100)

Exam 2: November 5 (points 0 - 100)

**Final Exam:** December 17, 10:30 am - 1:15 pm, Planetary Hall 129, Chapters 1 - 5 (points 0 - 100)

**Quizzes:** Quizzes may be given randomly (points 0 - 100)

**Final score:**  $F = 0.20*(\text{Exam 1}) + 0.20*(\text{Exam 2}) + 0.30*(\text{Cumulative Final Exam}) + 0.15*(\text{Comp. assign.}) + 0.15*(\text{Quizzes})$

**Final grade:** A-: 90 - 92; A: 93 - 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;

**Homework:** Homework will be assigned after the end of each class. I recommend using My MathLab for doing homework. Then if you have a high homework score, it will be counted towards the final grade. If you select to do the paper and pencil homework, then the homework score will not be graded and counted towards your grade.

**Computer assignments:** There will be 3 computer assignments to be done in MATLAB, or Mathematica

**In general:** The course covers functions, limits and continuity, differentiation, maximum and minimum problems, and integration.

**Mason Core:** This course satisfies the requirements of the Mason Core Quantitative Reasoning Category. The associated learning outcomes are for the students to be able to (1) interpret quantitative information and draw inferences from this information, (2) formulate quantitative problems and solve them using appropriate methods, (3) evaluate logical arguments, and (4) communicate and present quantitative results effectively.

**MATLAB** tutorials can be found [here](#)

**Mathematica** tutorials can be found [here](#)

### **Academic Integrity:**

Mason is an Honor Code university; please see the Office for Academic Integrity for a full description of the code and the honor committee process. The principle of academic integrity is taken very seriously and violations are treated gravely. What does academic integrity mean in this course? Essentially this: when you are responsible for a task, you will perform that task. When you rely on someone else's work in an aspect of the performance of that task, you will give full credit in the proper, accepted form. Another aspect of academic integrity is the free play of ideas. Vigorous discussion and debate are encouraged in this course, with the firm expectation that all aspects of the class will be conducted with civility and respect for differing ideas, perspectives, and traditions. When in doubt (of any kind) please ask for guidance and clarification.

### **Disability Services:**

If you are a student with a disability and you need academic accommodations, please see me and contact the Office of Disability Services (ODS) at 993-2474, <http://ods.gmu.edu>. All academic accommodations must be arranged through the ODS.

### **Counseling and Psychological Services (CAPS):**

(703) 993 2380, <http://caps.gmu.edu>

### **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 affair. Other policies are available at <http://universitypolicy.gmu.edu>.