MATH 113: Analytic Geometry and Calculus I

Fall 2017 - Syllabus

Instructor: Prof. Flavia Colonna
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Personal homepage: http://mason.gmu.edu/~fcolonna
Office Hours: TR 12:30 p.m.-2:00 p.m. and by appointment.
Prerequisite: C or better in MATH105 or specified score on the Math Placement Test.
Textbook: Briggs, Cochran, Gillett, *Calculus: Early Transcendentals*, 2nd ed., Pearson Ed., 2015.

Material to be covered: Chapters 1 through 5. Topics include exponential, logarithmic and inverse trigonometric functions, limits, differentiation and applications, basic integration.

Recitations: There is one hour of recitation each Wednesday. Check which recitation class you are registered for.

Exams: There will be 3 one-hour tests scheduled on Thurs. **Sept. 21**, Thurs. **Oct. 19**, Thurs. **Nov. 16**, and a comprehensive final exam scheduled on Tues. **Dec. 19, 10:30 a.m. - 1:15 p.m**. To take a test, a **picture ID is required**.

Homework and Quizzes: Homework will not be collected. You are expected, however, to solve all recommended HW problems. Weekly quizzes during recitation will be given in the course of the semester.

Attendance: Each student is expected to come to class and recitation regularly. My TA and I will keep a record of students' attendance and I will use this and class participation to decide grades at the end of the semester (see Grading Policy below).

Grading Policy: Each hour test is worth 100 points. The lowest test grade will be dropped. The sum of the quizzes assigned during recitation is worth 100 points. The lowest two quiz grades will be dropped. The final exam is worth 160 points. Attendance and class participation are worth 40 points.

Make-up Policy: **No make-up tests or quizzes will be granted after the scheduled date under any circumstance**. For a request of a make-up test or quiz on an earlier date, students must provide a valid written excuse at least a week in advance.

Honor Code: The **GMU Honor Code** is in effect at all times. **Violators will be prosecuted.** If you witness a violation, **you must notify me or your TA immediately!** Answers given without explanation, even if correct, receive **no credit**. All tests and quizzes will be **closed book**. You may work with other students to do your homework.

Grading Scale: 90-100: A, 80-89: B, 70-79: C, 60-69: D, < 60: F. The grades A-, B+, B-, C+, and C- may be assigned in border line situations.

Calculators: You also need a scientific calculator (a graphing calculator is preferable). **Generally during tests and quizzes calculators will not be permitted.**

Items Not Allowed During Tests or Quizzes: Books, notebooks, cheat sheets, smartphones, electronic devices of any kind (including earphones and smart watches), scratch paper other than that provided by instructor and TA.

Final remarks: This class requires a lot of time to do all the necessary work. If you do not have the time, you are strongly urged to take this class some other semester. Anyone having a problem with the exercises should seek immediate help from your TA, a tutor, or me. Free math tutoring is provided in the Math Tutoring Center located in the George Johnson Center, room 344.

Recommended Homework Exercises

Section	Problems (odd numbered exercises)
1.1	11-77
1.2	11-61,69,71
1.3	11-63,71
1.4	15-75
2.1	7-19
2.2	7-31
2.3	11-47,65-75
2.4	7-11,17-27,31-37
2.5	9-47,53,59
2.6	9-47,53,61,63,71,75
2.7	9-11,19,21,31
3.1	9-45,51,53
3.2	5-25,31
3.3	7-31,45,47,57,61,69
3.4	7-47
3.5	7-19,27,29,35,41,43
3.6	11-17,35,41
3.7	7-37,43,51,53
3.8	5-19,25-33,37,43-47
3.9	9-17,21,23,35,39,41,49-53
3.10	7-11,17,19
4.1	11-37,47,51,57,67,73
4.2	11-61,67,71,75,79
4.3	7-23,29,45
4.4	5-13,19,25,53
4.5	7-17,23,25,33
4.6	7-11,17,19
4.7	13-25,31,35,39,49,51,59,67
4.9	11-43,65,73,77
5.1	9-13,17,19,23,29,39(a,b),41(a,d,h)
5.2	11-29,35,37,41,43,45,71,73
5.3	11-57
5.4	7-27
5.5	19-27,35-45,53,67,75