

George Mason University Department of Mathematical Sciences

Syllabus for Math 105: Precalculus Mathematics

Instructor: Trey Andreani
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Office: Exploratory Hall 4407
Office Hours: M 10:30 - 11:30 AM

Section: 003
Time: MW 8:30 - 10:20 AM
Room: Lecture Hall 2

Course Description: Math 105 Precalculus Mathematics (4 semester hours): Reviews mathematics skills essential to studying calculus. Topics include: equations, inequalities, absolute values, graphs, functions, exponential and logarithmic functions, and trigonometry.

Prerequisites and Restrictions: Students taking Math 105 are required to have achieved an appropriate score on the math placement test or successful completion of the algebra tutorial program offered through the Math Learning Center.

Course Materials: The course text is Precalculus: Concepts Through Functions, A Unit Circle Approach by Sullivan and Sullivan, 2nd custom edition for GMU (ISBN: 978-1-323- 13796-3).

- **MyMathLab (online homework):** MyMathLab will be used for all homework assignments. Please refer to the instructions on Blackboard.
- **Mathematica:** Mathematica is a computer algebra system. Mathematica is free for students to use on personal computers, in the classroom, in computer labs, and on the Virtual Computing Lab. Instructions for downloading and installing Mathematica on personal computers are available at <https://cos.gmu.edu/mathematica>.
- **Calculator Policy:** No calculators will be allowed during the course. Please study and prepare accordingly.

Grades:

Homework: 10% Quizzes: 10% Mathematica: 5% Exams: 15% (3 Exams)
Final Exam: 30%

Academic Integrity: To promote a stronger sense of mutual responsibility, trust, and fairness among all members of the Mason community, and with the desire for greater academic and personal achievement, we, the student members of the university community, have set forth this honor code:

Student members of the George Mason University community pledge not to cheat, plagiarize, steal, or lie in matters related to academic work.

Students with Disabilities: All academic accommodations must be made through the Office of Disability Services (ODS). Students must provide a copy of their Faculty Contact Sheet in order to receive accommodations. Note that accommodations are not retroactive.

Attendance Policy: Students are expected to attend all classes and are responsible for all information presented. If a student misses a class, it is their responsibility to get notes on what they missed. No make-up quizzes will be given. Absences will only be excused in extreme circumstances, and with the appropriate documentation.

Tutoring Center: The Mathematics Tutoring Center, located in the Johnson Center room 344, specializes in general help for freshman/sophomore math classes. Please refer to the website for hours of operation.

<http://math.gmu.edu/tutor-center.php>

Important Dates:

First Day of Classes: August 28

Last Day to Drop Without a Tuition Penalty: September 5

Last Day to Drop: September 29

Selective Withdrawal Period: October 2 - 27

Schedule

This schedule is subject to change.

<u>Date</u>	<u>Sections</u>
8/28	A.7, A.8, A.10, F.1, F.3, F.4
8/30	1.1, 4.1
9/4	No Class
9/6	1.2, 1.3
9/11	4.2, 1.4, 1.5
9/13	1.5
9/18	1.6, 2.1, A.11
9/20	2.3, 2.7, 2.4
9/25	2.4, 2.5
9/27	2.6, 2.8 , 5.1
10/2	7.1a, 5.2, Exam Review
10/4	Exam I (Ch. 1 & 2)

10/10	5.2, 5.3 (Tuesday)
10/11	5.4, 5.6
10/16	5.4, 5.6, 5.5
10/18	6.4
10/23	6.5, 6.6
10/25	6.7, 6.3
10/30	6.1, 6.2, Exam Review
11/1	Exam II (Ch. 5, 6, &7)
11/6	3.1, 3.3
11/8	3.4, 3.5
11/13	3.5, 3.6
11/15	4.3
11/20	4.4, 4.5
11/22	No Class
11/27	4.6, 4.7, Exam Review
11/29	Exam III (Ch. 3 & 4)
12/4	4.8
12/6	7.1b, Exam Review
12/13	Final Exam (7:30-10:15 AM)