

# Math 115-007 Precalculus

## Fall 2016

**Instructor** Alicia Lamarche

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**Office Hours** Tuesdays / Thursdays 10am-12pm & by appointment

### Course Information

**Course Website** <http://people.math.sc.edu/alicial/teaching/115-F2016/>

#### Meeting Times

Lecture	MW	HUMCB 316	9:40am - 10:30am
	TR	HUMCB 403	8:30am - 9:45am

**Prerequisites** Placement code MA2 or MC0-9 required; earned a C or better in Math 111/111i or by the precalculus placement test.

#### Course Text

*Precalculus 2<sup>nd</sup> Custom Edition for USC*, Mark Dugopoloski ISBN: 1-269-74815-7.

**Learning Outcomes** Upon successful completion of the course, students should be able to:

1. Increase their skills with algebra and trigonometry. It should be noted that your algebra skills are a prerequisite for precalculus. All mistakes are not created equal. *You cannot begin many precalculus problems without necessary algebraic skills.*
2. Work with mathematical terms such as linear, quadratic, exponential, logarithmic, inverse polynomial, rational, circular, and trigonometric functions and express these terms in correct context.
3. Apply the methods of algebra to solve applications involving intercepts, rates of change, inequalities, system of equations, rational functions, and interest growth. Develop various properties graphically and formulaically (domain, range, inverse functions, unit circle, Pythagorean identities, reciprocals, half-angle, and double-angle, and transformations).
4. Students will tackle problems that require more than one step to solve. *This will be challenging because you may want to draw on external sources for help, but strive to be patient and give your brain a fair and just attempt.*

## Coursework

**Homework** *Homework is assigned online via MyMathLab.* To register for our class, the **Course ID** is lamarche87906. Homework can be accessed at

<http://www.MyMathLab.com>

Note that this online system comes with an eBook, so purchasing the textbook itself is optional. If you choose not to purchase the bookstore package, then you can purchase access online for \$99.95 when you enroll.

For instructions on how to enroll in the MyMathLab course, see the attached handout.

**Quizzes** One quiz will be given each week. Quizzes will, in general, be based off of the assigned homework problems or examples from class, and will give you exposure to the types of questions that will appear on exams. The two lowest quiz scores will be dropped.

**Midterm Exams** Three exams will be given, with the following tentative dates and topics:

<i>Wednesday, September 14</i>	Sections P.1-P.6, 1.1-1.7
<i>Monday, October 17</i>	Sections 2.1-2.6, 3.1,3.2,3.4,2.5, 4.1-4.4
<i>Tuesday, November 15</i>	Sections 5.1-5.6, 6.1-6.5, 7.1, 7.2, 7.6

Each exam will be the duration of the class. Calculators are not permitted.

**Final Exam** There will be a cumulative final exam given during finals week.

**Late Policy** Late work will not be accepted, and in general **no** make-up exams will be given. Exceptions may be made in the case of a documented illness or emergency, and in this case I request that you contact me immediately for arrangements.

**Supplemental Instruction (SI)** The SI leader for 115-007 is:

*Jimmy Shumate* [jshumate@email.sc.edu](mailto:jshumate@email.sc.edu)

Students are encouraged to attend SI Sessions to focus on the most difficult content being covered in class. SI Leaders hold three weekly study sessions that can serve as built-in study time. The schedule is posted on the SSC (Student Success Center) website each week and will also be communicated by the SI Leader.

**Additional Help** Outside of scheduled office hours and SI meeting times, I recommend the following resources for additional help.

- The Math Tutoring Center (LeConte 105) offers free tutoring to students, no appointment is necessary: <http://www.math.sc.edu/math-tutoring-center>
- The Student Success Center: <http://www.sc.edu/success>
- Paul's Online Math Notes: <http://tutorial.math.lamar.edu>

## Grades

Your grade will be calculated according to the following percentages:

Midterm Exams	3 @ 15% each	45%
Final Exam		25%
Quizzes		15%
Homework		15%
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Total		100%

Grades will be assigned based on the following scale:

A	B+	B	C+	C	D+	D	F
>90%	86-89%	80-85%	76-79%	70-75%	66-69%	60-65%	< 60%

## Expectations

**Attendance** Students are expected to attend every lecture, arriving on time and staying for the duration of the class. Attendance will be recorded during every class. Absences may be excused with proper documentation of illness or emergency, and it is the responsibility of the student to provide such documentation in a timely manner. Students are responsible for any missed classes.

In accordance with university policy, a letter grade may be deducted for students who miss 10% or more of classes. In borderline cases, your attendance may be taken into account when calculating grades.

**Students with Disabilities** Students with disabilities must register with the Office of Student Disability Services before accommodations can be made.

**Academic Integrity** Students are expected to act in accordance with the *University of South Carolina Honor Code*:

<https://www.sa.sc.edu/academicintegrity/>

Any form of cheating will not be tolerated in this course. Violations of the honor code will be dealt with in a matter consistent with University regulations.

**Classroom Disruptions** To avoid disrupting other students, please silence all electronics, including cellphones, during class. Additionally, as stated above, it is expected that all students stay for the duration of the class.