

# Math 127: Precalculus II

Mathematics and Statistics Department, University of Nevada, Reno

Section 1002, MW 2:30-3:45pm, AB 101

Fall 2016

## INSTRUCTOR INFORMATION

Instructor: Adrienne Petersen  
Email: arpetersen@unr.edu  
Website: www.arpetersen.com  
Office: DMS 233  
Office Hours: MW 12-2pm

## REQUIRED MATERIALS

Textbook: "Precalculus" 10th Edition by Sullivan (Also available online at [www.MyMathLab.com](http://www.MyMathLab.com))  
Calculator: Scientific calculator and knowledge of operating calculator

## COURSE DESCRIPTION

Trigonometric functions, identities and equations, conic sections, complex numbers, polar coordinates and vectors. Credit may not be received for Math 127 if credit has already been awarded for Math 128 or higher.

## LEARNING OBJECTIVES

This course satisfies the university core mathematics requirement and meets the Core Objective CO2 Quantitative Reasoning: Students will be able to apply quantitative reasoning and mathematical analysis methodologies to understand and solve problems.

## STUDENT LEARNING OUTCOMES

Upon completion of this course, a student will be able to solve trigonometric equations, convert between Cartesian and polar coordinates, and analyze equations of central conics.

## TOPICS COVERED

Trigonometric functions, identities and equations, conic sections, complex numbers, polar coordinates, vectors, matrix algebra.

## PREREQUISITE

One of the following: ACT 27, SAT 610, Math 126 C, Accuplacer EA 80 and CLM 84

## GRADING

Your course grade will be determined by the following:

|                       |     |
|-----------------------|-----|
| Homework              | 15% |
| Recitation Activities | 15% |
| Exams                 | 45% |
| Final Exam            | 25% |

The grading scale will be as follows:

|    |              |    |              |
|----|--------------|----|--------------|
| A  | 92.0 – 100%  | C  | 70.0 – 77.9% |
| A- | 90.0 – 91.9% | D+ | 68.0 – 69.9% |
| B+ | 88.0 – 89.9% | D  | 62.0 – 67.9% |
| B  | 82.0 – 87.9% | D- | 60.0 – 61.9% |
| B- | 80.0 – 81.9% | F  | 0 – 59.9%    |
| C+ | 78.0 – 79.9% |    |              |

**No rounding up will be done, no exceptions. You need at least a D to pass this class and earn core math credit. You need at least a C to move on to the next math class.**

### **HOMEWORK**

All homework assignments are to be completed on [www.MyMathLab.com](http://www.MyMathLab.com). Due dates will be posted online. It is your responsibility to keep up with the homework and due dates. You may work on your homework after the due date with a 50% penalty until midnight of the day before the next exam. You are allowed to work on homework with your classmates, a tutor, or in the math center. Getting help on homework is encouraged and is not considered cheating.

All students must register for this course online by going to [www.MyMathLab.com](http://www.MyMathLab.com) and following the instructions. You will need a valid email address, course ID (**The course ID for this class is [petersen79475](#)**) and student access code (comes with textbook or is purchased online) to register. All students must register by Friday, September 2. If you need assistance registering, please call tech support at 1-800-677-6337.

### **RECITATIONS**

Every Friday you will have a recitation section led by our TA. There will be graded quizzes, group work, and other activities in recitations that will make up 15% of your overall grade. There will also be time for you to ask questions from lecture or homework, so you are encouraged to review the week's homework **before** recitation. Your two lowest recitation scores will be dropped at the end of the semester. Absolutely no early or late quizzes/activities will be given. Your TA will give you a syllabus with their policies and contact information at the first recitation. It is your responsibility to make sure that your recitation grades are entered correctly on the MyMathLab gradebook. Any grading error must be reported to the instructor or TA in writing within 1 week of posting.

### **EXAMS**

There will be 3 exams and a comprehensive final exam. Please see the class schedule below for exam dates. Exams will be a combination of multiple choice and free response. Free response may or may not be graded with partial credit. A scientific calculator will be allowed on Exam 3 and the Final Exam. Formula sheets may be provided for some exams. You must have your UNR student ID with you for all tests. If you are late to an exam 10% will be deducted from your exam score. Any student participating in official school activities that will interfere with tests must make arrangements with me two weeks prior to the test that will be missed. Any student requiring accommodations through the DRC must schedule their exams on the same day as the in class exam. No late or early exams will be given unless you have a documented medical emergency. It is your responsibility to make sure that your exam

grades are entered correctly on the MyMathLab gradebook. Any grading error must be reported to the instructor or TA in writing within 1 week of posting.

### **AVAILABLE RESOURCES**

Your student fees cover usage of the Math Center (775-784-4433 or [www.unr.edu/mathcenter/](http://www.unr.edu/mathcenter/)), Tutoring Center (775-784-6801 or [www.unr.edu/tutoring/](http://www.unr.edu/tutoring/)), and University Writing Center (775-784-6030 or [www.unr.edu/writing\\_center](http://www.unr.edu/writing_center)). These centers support your classroom learning; it is your responsibility to take advantage of their services. Keep in mind that seeking help outside of class is the sign of a responsible and successful student.

### **DISABILITY STATEMENT**

The Department of Mathematics and Statistics supports providing equal access for students with disabilities. Any student with a disability needing academic adjustments or accommodations is requested to speak with me or the Disability Resource Center (Thompson Building Suite 101) as soon as possible to arrange for appropriate accommodations.

### **EMAIL**

Email is a formal means of communication between you and your professor or TA. Make sure to use correct grammar, capitalization, and punctuation. You should include your full name, class name, and section number on every email. Any email not following these guidelines may be returned to you for revision. You should try to resolve any issues or questions with your TA before emailing your professor. Many questions can be answered by reviewing our syllabus, schedule, and website. Please allow 1-2 business days for a reply.

### **ACADEMIC CONDUCT**

No laptops, cell phones, iPods, or other electronics are allowed in class. If you are being disruptive during class you will be asked to leave. You must come to class on time and stay until the end of lecture. Tardy students will not be admitted to class. Please visit <http://www.unr.edu/student-conduct> for our official student code of conduct.

### **UNIVERSITY RECORDING POLICY**

Surreptitious or covert video-taping of class or unauthorized audio recording of class is prohibited by law and by Board of Regents policy. This class may be videotaped or audio recorded only with the written permission of the instructor. In order to accommodate students with disabilities, some students may have been given permission to record class lectures and discussions. Therefore, students should understand that their comments during class may be recorded.

### **ACADEMIC DISHONESTY**

Cheating, plagiarism or otherwise obtaining grades under false pretenses constitutes academic dishonesty according to the code of this university. Academic dishonesty will not be tolerated and penalties can include canceling a student's enrollment without a grade or giving an F for the course or for the assignment. For more details, see the University of Nevada, Reno general catalog.

Please visit my website [www.arpetersen.com](http://www.arpetersen.com) for a list of frequently asked questions and their answers.

|    |           |              |                         |
|----|-----------|--------------|-------------------------|
| 1  | Monday    | August 29    | Class Intro and 6.1     |
|    | Wednesday | August 31    | 6.1 and 6.2             |
|    | Friday    | September 2  | Recitation              |
| 2  | Monday    | September 5  | Labor Day -- No Class   |
|    | Wednesday | September 7  | 6.2 and 6.3             |
|    | Friday    | September 9  | Recitation              |
| 3  | Monday    | September 12 | 6.4                     |
|    | Wednesday | September 14 | 6.5                     |
|    | Friday    | September 16 | Recitation              |
| 4  | Monday    | September 19 | 6.6                     |
|    | Wednesday | September 21 | Review for Exam         |
|    | Friday    | September 23 | EXAM 1                  |
| 5  | Monday    | September 26 | 7.1                     |
|    | Wednesday | September 28 | 7.1 and 7.2             |
|    | Friday    | September 30 | Recitation              |
| 6  | Monday    | October 3    | 7.2 and 7.3             |
|    | Wednesday | October 5    | 7.3                     |
|    | Friday    | October 7    | Recitation              |
| 7  | Monday    | October 10   | 7.4                     |
|    | Wednesday | October 12   | 7.5                     |
|    | Friday    | October 14   | Recitation              |
| 8  | Monday    | October 17   | 7.6                     |
|    | Wednesday | October 19   | Review for Exam         |
|    | Friday    | October 21   | EXAM 2                  |
| 9  | Monday    | October 24   | 8.1 and 8.2             |
|    | Wednesday | October 26   | 8.2                     |
|    | Friday    | October 28   | Nevada Day-- No Class   |
| 10 | Monday    | October 31   | 8.3                     |
|    | Wednesday | November 2   | 8.4                     |
|    | Friday    | November 4   | Recitation              |
| 11 | Monday    | November 7   | 9.1 and 9.2             |
|    | Wednesday | November 9   | 9.2 and A.7             |
|    | Friday    | November 11  | Veteran's Day--No Class |
| 12 | Monday    | November 14  | A.7 and 9.3             |
|    | Wednesday | November 16  | 9.4                     |

|    |           |             |                         |
|----|-----------|-------------|-------------------------|
|    | Friday    | November 18 | EXAM 3                  |
| 13 | Monday    | November 21 | 10.3                    |
|    | Wednesday | November 23 | Class Canceled          |
|    | Friday    | November 25 | Thanksgiving--No Class  |
| 14 | Monday    | November 28 | 10.4                    |
|    | Wednesday | November 30 | 10.7                    |
|    | Friday    | December 2  | Recitation              |
| 15 | Monday    | December 5  | 11.5                    |
|    | Wednesday | December 7  | Review for Final        |
|    | Friday    | December 9  | Recitation              |
| 16 | Monday    | December 12 | Review for Final        |
|    | Wednesday | December 14 | Prep Day -- No Class    |
| 17 | Wednesday | December 21 | FINAL EXAM 12:30-2:30pm |