

MATH 127.5804 Precalculus II

Wintermester 2019

Number of Credits

3

Instructor

Leif Hennessey

Catalog Description

Trigonometric functions, identities and equations; conic sections; complex numbers; polar coordinates, vectors; systems of equations, Matrix algebra and more.

This course satisfies the University Core Mathematics requirement. Credit may not be received for both MATH 127 and MATH 128.

Prerequisite(s): ACT score of 27, SAT score of 610, revised SAT score of 630, at least a score of 80 on the Accuplacer Elementary Algebra test and at least a score of 84 on the Accuplacer College Level Math test, or MATH 126 with a "C-" or better.

Required Textbooks/Materials

The following texts are required material in this course:

Pearson MyMathLab (Textbook included with MyMathLab subscription). Details for registering on MyMathLab will be provided in class.

Student Learning Outcomes

Upon successfully completing this course, students will be able to

- solve trigonometric equations;
- convert between Cartesian and polar coordinates; and
- analyze equations of central conics such as ellipses and hyperbolas.

Course Details

There will be three midterm exams and a final exam (one exam every 3-4 class days), which together total 75 percent of the final class grade. There will be a quiz every day except on

exam days. Work will need to be shown on quizzes and exams to receive full credit. Homework will be assigned on a weekly basis and will consist of one assignment per section covered that week (6-8 homework assignments per week).

Grade Breakdown

The point distribution for the course is:

Assignment	Points
Homework	15
Quizzes	10
Midterm Exams	45
Final Exam	30
<i>Total</i>	<i>100</i>

The percentage distribution for the course is:

Letter	Percentage
A	93–100
A-	90–93
B+	87–90
B	83–87
B-	80–83
C+	77–80
C	70–77
D+	67–70
D	63–67
D-	60–63
F	0-60