

Jamestown Community College

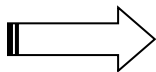
State University of New York
Precalculus (MAT 1600) CRN# 4667

2024 – 2025

Room 129

Mrs. Haynes

CONTACT INFORMATION



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(716) 375-6600 X2129

COURSE DESCRIPTION



4 credit hours

The textbook for this course is found online using the website
<http://openstax.org/subjects>

Students will learn topics necessary for studying calculus and discrete mathematics. Algebra topics include rational and polynomial functions. Trigonometry topics include graphs, identities, sum and difference formulas, and inverse trig functions. Other topics include exponential and logarithmic functions and an introduction to limits.

Prerequisite: Algebra II Regents Score (or final course average) of 80+
or ACCUPLACER QAS score of 255+
or meets eligibility requirements for any higher-level math course

COURSE STUDENT LEARNING OUTCOMES

After successful completion of this course, students will be able to analyze and solve problems involving the following concepts – with and without the use of a graphing calculator – and from any of three representations (numeric, algebraic, and graphic):

1. Interpret and draw inferences from mathematical models such as formulas, graphs, tables, and schematics.
2. Represent mathematical information symbolically, visually, numerically and verbally.
3. Employ quantitative methods such as arithmetic, algebra, geometry, or statistics to solve problems.
4. Estimate and check mathematical results for reasonableness.
5. Recognize the limits of mathematical and statistical methods.

GRADING SCALE CALCULATIONS

Tests: 50%

Quizzes: 25%

Homework: 25%

GRADING SCALE (JCC equivalents)

A (90 – 100)
B+ (87 – 89)
B (80 – 86)
C+ (77 – 79)

C (70 – 76)
D+ (67 – 69)
D (60 – 66)
F LESS THAN 60

COURSE TOPIC OUTLINE

First Semester

Section 1.1 Functions and Function Notation
Section 3.3 Power functions and Polynomial Functions
Section 3.7 Rational Functions
Section 3.4 Graphs of Polynomial Functions
Section 4.1 Exponential Functions
Section 4.2 Graphs of Exponential Functions
Section 4.3 Logarithmic Functions
Section 4.4 Graphs of Logarithmic Functions
Section 4.5 Properties of Logarithmic Functions
Section 4.6 Logarithmic and Exponential Equations
Section 4.7 Logarithmic and Exponential Models
Section 4.8 Fitting Exponential Models to Data

Second Semester

Section 5.1 Angles and their Measure
Section 5.3 The other Trigonometric Functions
Section 5.4 Right Triangle Trigonometry
Section 5.2 Unit Circle: Sine and Cosine Functions
Section 6.1 Graphs of the Sine and Cosine Functions
Section 6.2 Graphs of the other Trigonometric Functions
Section 6.3 Inverse Trigonometric Functions
Section 7.1 Solving Trigonometric Equations with Identities
Section 7.2 Sum and Difference Identities
Section 7.4 Sum-to-Product and Product-to-Sum Formulas
Section 7.5 Solving Trigonometric Equations
Section 12.1 Finding Limits: Numerical and Graphical Approaches
Section 12.2 Finding Limits: Properties of Limits

Expectations of JCC students

Civility Statement: <http://www.sunyjcc.edu/current-students/classroom-civility>

Student Responsibility Statement: <http://sunyjcc.edu/student-life/campus-life/student-responsibilities>

Academic Integrity: <http://www.sunyjcc.edu/current-students/academic-integrity>

CLASSROOM POLICIES

1. Homework will be given every class. However, it is probable that the assignments will not be graded. Homework completion is necessary for practice of concepts and preparing for assessments. If an assignment is to be graded the students will be notified beforehand.
NO LATE HOMEWORK WILL BE ACCEPTED.
2. If a student is absent from school, he/she is still responsible for getting any missed notes or handouts.
3. If a student is absent from school, he/she may make up a missed quiz/test **ONLY** if the absence was coded as **EXCUSED**. No makeup assessments will be given for unexcused absences.
4. Cell phone use is prohibited during class time.
5. There will be up to 10 exams given, up to 10 quizzes given, a midterm exam, and a final exam.
6. Occasionally extra credit will be available. This is completely at the teacher's discretion.
7. Daily required materials: book, pencil, pen, eraser, 3- ring binder and TIInspire calculator.
(TI-nspire graphing calculators are issued to each student just like a textbook. Please see the accompanying letter)
8. My free periods are: 5, 6, and 8. I can also be available for extra help after school. All you need to do is let me know when you'd like to stay.
9. If necessary (or requested) any information concerning the class will be posted on Teams.

Sign, detach along dotted line, and return

STUDENT FULL NAME: _____
(please print)

I have read and discussed with my child the information regarding JCC (MAT 1600) PRE-CALCULUS class.

parent signature

date