

• **Contact Information:**

Instructor: Katrina Duffy

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Google Classroom Link: <https://classroom.google.com/c/MzgyMjQ1MzMzOTUx?cjc=u7zzlow>

**Class Time:** 11:50am to 12:36pm      **Office Hours:** 1:32pm to 2:25pm

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• **Course Description: 4 Credit Hours**

This course is intended primarily for students planning to take calculus. Topics include a study of functions, specifically: linear, polynomial, rational, trigonometric, exponential, logarithmic, and inverse functions. Modeling and data analysis techniques are also employed. Conceptual understanding is emphasized, and algebraic skills are reinforced throughout the course

• **Prerequisites:**

Placement level 4 (see DCC Math Placement Table), OR MAT 184 with C or higher, or MAT 132 with C or higher, OR MAT 110 with A- or higher.

• **Textbook:**

Precalculus; Halsey, DeGuzman *Creative Commons Attribution 4.0 International License, 2019*

• **Equipment:**

A graphing calculator from the TI-83/84 family of calculators is required for this course.

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• **Course Student Learning Outcomes**

Upon completion of this course students will be able to:

1. Identify the type of functional relationship (polynomial, rational, exponential, logarithmic, or trigonometric) between two variables when information is given verbally, numerically, graphically and/or algebraically.
2. Specify the graphical and algebraic characteristics of polynomial, rational, exponential, logarithmic, and trigonometric functions.

3. Use algebraic and graphical methods to solve polynomial, rational, exponential, logarithmic, and trigonometric equations.
4. Employ mathematical modeling techniques to solve problems using polynomial, rational, exponential, logarithmic, and trigonometric functions.
5. Find inverse functions verbally, numerically, graphically, and algebraically
6. Find a formula for a function given a graph, data points, and/or a verbal description.
7. Verify trigonometric identities and solve trigonometric equations.

- **DCC Institutional Student Learning Outcomes (ISLOs)**

Placement into this course means the student has already demonstrated competency in the Quantitative Reasoning ISLO.

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- **Grading Policies:**

A student can determine their average at any time by adding up the points they have earned and dividing by the total number of points which they could have earned. Students can also look on Google Classroom for their average.

**Assignments** will be posted on Google Classroom and should be expected almost every day. All assignments are due by 7am the following class day and will be worth 2 points based on effort. *Late assignments can be made up for 1 point only if all work is shown.*

**Graded Assignments** will occasionally be assigned and posted on Google Classroom. These assignments will be announced and can be worth up to 45 points. *Graded assignments will be accepted late, however, several points will be deducted for each day it is past due.*

**Quizzes/Tests** - Quizzes will be worth anywhere from 5 to 45 points each. Quizzes can be expected at least once a week. There *may* be an exam every two or three weeks. Exams will be announced in advance. If there is an absence on the day of a quiz or test the students are expected to take the exam on the day that they return to school. Tests typically range from 45 to 100 points.

**DCC Final/District Final Exams** – The DCC final will cover topics which are part of the DCC MAT 185 curriculum. The use of a calculator is not allowed for the final exam. This exam will count towards 20% of the final average for the course.

- **Calculating Final Grades:**

Each quarter is worth 20% of your final average. The final exam is worth 20% of your final average. Students can see their average at any time on Google Classroom.

- **Grade Equivalence:**

|               |               |               |              |             |
|---------------|---------------|---------------|--------------|-------------|
| A = (93, 100) | B+ = (87, 89) | B- = (80, 82) | C = (70, 76) | F = (0, 59) |
| A- = (90, 92) | B = (83, 86)  | C+ = (77, 79) | D = (60, 69) |             |

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## • Academic Accommodations

Students with documented disabilities and have a finalized 504 or 408 document on file will always receive the accommodations specified within those documents.

## • Academic Integrity Policy

Dutchess Community College is committed to the principles of honesty, integrity, and ethical behavior. It is expected that students will recognize these values and adhere to all aspects of student conduct and academic honesty inside and outside of the classroom.

Academic dishonesty in any form is regarded by the College as a breach of academic ethics and may result in disciplinary action.

Academic dishonesty includes, but is not limited to, the following:

- Cheating on examinations
- Plagiarism: the representation of another's ideas or writing as one's own. Examples include:
  - Presenting all or part of another person's published work as something one has written;
  - Paraphrasing or summarizing another's writing without proper acknowledgement (citation);
  - Representing another's artistic or technical work or creation as one's own;
  - Willingly collaborating with others in any of the above actions which result(s) in work being submitted which is not the student's own.
- Stealing examinations, taking electronic images, falsifying academic records and other such offenses.
- Knowingly permitting another student to use one's work or cheat from one's examination.
- Submitting work previously presented in another course without permission of instructor.
- Unauthorized duplication of computer software.
- Unauthorized use of copyrighted or published material.

If, based on substantial evidence, an instructor deems that a student is responsible for a violation of the Academic Integrity Policy, the instructor may take the following actions:

- The instructor may require that the student repeat the assignment or examination, or
- The instructor may give the student a failing grade for the assignment or examination, or
- The instructor may give the student a failing grade for the course.

As an institution of higher education, it is incumbent on the College to ensure that students understand and uphold the highest standards of academic honesty and that there be accountability in cases where students repeatedly violate those principles. To build an

intellectual culture of academic integrity and ensure that students learn appropriate behavior in their academic endeavors, faculty and staff who judge that a student intentionally violates the Academic Integrity Policy shall report said violation to the Office of Academic Affairs.

The Office of Academic Affairs, in consultation with faculty and staff, will be responsible for developing and implementing appropriate academic administrative reporting procedures, educational interventions, disciplinary actions, and appeal processes. Students' right to privacy will be upheld, and all students shall have the right to appeal any action that results from this process.

