

Kent State University - Stark Campus
ALGEBRA FOR CALCULUS - 13960 - MATH 11010 - 660
2019-07-15 through 2019-08-17

Summer 2019

Instructor: Dr. Janice Kover

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Online Course

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Office: 409MH Stark Campus

Office Hours:

- Mondays: 9:30-10:30am, Virtual Only
- Tuesdays: 1pm-2pm, Virtual Only
- Wednesdays: 9:00-10:00am, Virtual Only

If you wish to meet in person at Stark Campus, please make arrangements by Friday of the previous week.

Text : "Precalculus" by Stewart, Lothar, Watson (ISBN: 0-534-38541-9) ANY edition will be fine, this is just the text that I reference. I typically do not collect homework from the text, but you should be doing the homework out of some Precalculus text.

Required: At least a scientific calculator. TI-82, TI-83, TI-83+ graphing calculators are encouraged. TI-83 will be used in lectures. Other graphing calculators will not be permitted on the proctored exams.

Course Description: This course introduces the subject of Algebra and its applications. We will tentatively cover Chapters 1-4. See page two for detailed learning outcomes given by the math department.

Course Policies:

1. Course grades are determined by:

15% - Videos Lessons YOU ARE GRADED BY THE ACCOMPANYING QUIZZES - these are NOT optional

15% - May include Turn-In Assignments, Surveys, Short Quizzes, Special Assignments, or Q&A Forums

70% - PROCTORED Tests (2 proctored midterm tests 20% each, comprehensive Final Exam 30% proctored)

Grading Scale: 90%-100% A; 80%-89% B; 70%-79% C; 60%-69% D; 0%-59% F (plus and minus grades will be assigned only in close cases)

2. You should complete all work the week in which it is given. Please stay alert to due dates. You will need to complete each week's work on time or you will quickly find yourself too far behind to catch up. If there are extenuating circumstances email the professor immediately attaching the appropriately scanned documentation.

3. Homework may be collected at any time. That is, you may be asked to scan your homework and turn it in.

4. You will be given approximately five days to take proctored exams. Make-up exams will only be given in extenuating circumstances and must have professional documentation for approval. These exams must be monitored via a Kent Regional Campus testing center (not Trumbull) or Proctorio. Be aware you will not be permitted to use scrap paper or a hand-held calculator if you choose to take the exams with Proctorio.

- Midterm I - PROCTORED 20% of grade - Testing Window: Tuesday, July 23rd-Saturday, July 27th
- Midterm II - PROCTORED 20% of grade - Testing Window: Friday, August 2nd-Wednesday, August 7th
- Final Exam - Comprehensive & Proctored - THIS IS 30% of your grade - Testing Window: Saturday, August 10th-Friday, August 16th

5. While there is no monitoring of how you conduct your weekly work it is assumed that you will give your full attention to your work when you view the videos, work on assignments or visit virtual office hours. Keep in mind you must answer the questions in the Video Lessons in Moodle.

6. Appropriate language is expected both written and verbal during virtual hours. (This includes abbreviations.)

7. Office hours will not be held if the Stark Campus has classes canceled during the scheduled session.
8. The proctored final exam is required. Failure to show for the final exam may result in an F for the course.

Academic Honesty: Use of the intellectual property of others without attributing it to them is considered a serious academic offense. Cheating or plagiarism will result in a failing grade for the work or for the entire course. Repeat offenses result in dismissal from the University. University guidelines require that all infractions be reported to the Student Conduct Officer on our campus. Kent State University policy on academic honesty can be found at:

http://www2.kent.edu/policyreg/policydetails.cfm?customel_datapageid_1976529=2037779

Students with Disabilities: University policy 3-01.3 requires that students with disabilities be provided reasonable accommodations to ensure their equal access to course content. If you have a documented disability and require accommodations, please contact the instructor at the beginning of the semester to make arrangements for necessary classroom adjustments. Please note, you must first verify your eligibility for these through Student Accessibility Services (contact 330-244-5047 or visit <http://www.kent.edu/stark/student-accessibility-services> for more information on registration procedures).

Office Hours Canceled/Campus Closings: Announcements of class cancellations and/or campus closings will be made on the campus home page. In the case of an emergency, weather-related or otherwise, please check the web page at stark.kent.edu for information on the buildings and times of the closing. While information may be broadcast by radio and television, this should be confirmed by the web page, which is the official announcement of the campus and which will be the information used to determine issues related to student attendance, rescheduling of tests, and other concerns.

Withdrawal: If you are considering withdrawing from this course, please consult with a staff member in the Office of Student Services of your local campus. Withdrawal from a course can affect financial aid, student status, or progress within your major. For withdrawal deadlines, please refer to: <http://www.kent.edu/registrar/fall-important-dates>.

11010 Algebra for Calculus Learning Outcomes

Knowledge

Master algebraic techniques and manipulations necessary for problem solving in this course and in calculus. Solve a variety of equations and inequalities, including polynomial, rational, exponential, and logarithmic, including those arising in application problems.

Comprehension

Represent functions verbally, numerically, graphically and algebraically, including linear, quadratic, polynomial, rational, root/radical/power, piecewise-defined, exponential, and logarithmic, functions. Perform operations on functions and transformations on the graphs of functions.

Application

Use functions, including those listed above, to model a variety of real-world problem solving applications.

Analysis

Analyze the algebraic structure and graph of a function, including those listed above to determine intercepts, domain, range, intervals on which the function is increasing, decreasing or constant, the vertex of a quadratic function, asymptotes, whether the function is one-to-one, whether the graph has symmetry (even/odd), etc., and given the graph of a function to determine possible algebraic definition.

Synthesis

Understand the difference between an algebraic equation of one, two or more variables and a function, and the relationship among the solutions of an equation in one variable, the zeros of the corresponding function, and the coordinates of the x-intercepts of the graph of that function.

Evaluation

Consider and explain the role of mathematics in understanding business and social problems. Develop confidence and competence in communicating mathematical knowledge to peers.

Class Activities

Small group problem-solving, individual problem solving, mini-lectures, group and individual quizzes, individual exams

Out of class Activities

Read the textbook and/or watch videos, answer questions about the readings or videos, online homework assignments, small group problem sets