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Catalog Description: This course is a functional approach to algebra that incorporates the use of appropriate technology. Emphasis will be placed on the study of functions and their graphs, inequalities, and linear, quadratic, piece-wise defined, rational, polynomial, exponential, and logarithmic functions. Appropriate applications will be included. (Students who take this course in preparation for MATH 1501 are also required to successfully complete MATH 1112A.)

Prerequisite: MATH 099 with a grade of C% or better, **OR** MATH 1101 with a grade of C or better, **OR** an acceptable score on a placement test (at least 76 for CPTC & at least 26 for CPTC).

Technology Prerequisite: Your laptop computer will be used extensively in this course. **You must bring your computer and your textbook to each class meeting** and immediately set up your computer, unless otherwise informed by your instructor. Basic computer skills for using email, the Internet, and file management are necessary to succeed. If you do not have these skills, it is strongly recommended that you attend appropriate workshop(s) provided by the Student Software Support Services (SSSS) located downstairs in the Library. [Click here](#) to see a list of the SSSS Workshops listed in the near future. SSSS also provides individual assistance either by appointment with the receptionist or on a walk-in basis. Students should make an appointment with the HUB to have software loaded on their computers. Please see the [DUCK](#) for information about activating email accounts.

Important Dates:

Jan 9	Classes Begin	March 3-10	Spring Break (No Classes)
Jan 16	Labor Day Holiday (No Classes)	Apr 30	Last day of classes
March 2	Last day to withdraw	May 1-7	Final Exams

Textbook Information: The textbook for this course is Algebra & Trigonometry, 4th ed., by Beecher, Penna, and Bittinger. The text is available in the CSU bookstore: it is in loose-leaf format and automatically bundled with a MyMathLab access code. If you choose to buy a textbook from another source, it may not be correctly bundled with access to MyMathLab. In that case you will still have to purchase access to MyMathLab to be able to complete your homework assignments and quizzes.

MyMathLab Information: [Click here to register yourself with MyMathLab](#). You will need the following information readily available:

- Your student e-mail address
- Your MyMathLab student access code (bundled with text, or purchased separately on website)
- The MyMathLab Course ID code for this course: driscoll25684

Follow the link above to go to the MyMathLab/CourseCompass registration page. Follow the on-screen instructions to register. If you purchased a book without a MyMathLab access code, you can purchase access to MyMathLab during the registration process. If you purchased a book with a MyMathLab access code, YOU DO NOT NEED TO PURCHASE ANYTHING during registration, simply enter the code that came with your text when prompted to do so.

Course Content:

- Graphs, Functions, and Models (Sections 1.2 to 1.5)
- More on Functions (Sections 2.1 to 2.4)
- Quadratic Functions and Equations; Inequalities (Sections 3.1 to 3.5)
- Polynomial and Rational Functions (Sections 4.1 to 4.6)
- Exponential and Logarithmic Functions (Sections 5.1 to 5.6)
- Systems of Equations and Matrices (Sections 9.1 to 9.3)

Course Learning Objectives:

- Express relationships using the concept of a function and use verbal, numerical, graphical and symbolic means to analyze a function.
- Model situations from a variety of settings by using polynomial, exponential and logarithmic functions.
- Manipulate mathematical information, concepts, and thoughts in verbal, numeric, graphical and symbolic form while solving a variety of problems which involve polynomial, exponential or logarithmic functions.
- Apply a variety of problem-solving strategies, including verbal, algebraic, numerical and graphical techniques, to solve multiple-step problems involving equations, inequalities and systems of linear equations.
- Shift among the verbal, numeric, graphical and symbolic modes in order to analyze functions.
- Use appropriate technology in the evaluation, analysis and synthesis of information in problem-solving situations.

Required Course Materials:

- **COMPUTER:** A computer is required and each student needs access to a notebook computer. Students will use their notebook computers during class sessions and tests. Clayton State University **requires** that students have ready access throughout the semester to a notebook computer that meets faculty-approved hardware and software requirements for the student's academic program. See <http://itpchoice.clayton.edu> for full details of this policy.
- **MATH SOFTWARE:** The two software products students will be using is **MS Excel** (available

for free from the HUB's Student Software Support Services in the lower level of the Library) and **Graph** (available for free download from <http://www.padowan.dk/graph/Download.php>). This software is separate from the textbook package, and is only available through the indicated sources.

- **TEXTBOOK:** *Algebra & Trigonometry*, 3rd Ed., by Beecher, Penna, and Bittinger
- **MyMathLab:** Your textbook is bundled with an activation ID card and password for access to this site, which is created to help you succeed in your mathematics course. This bundle is only available through the CSU Bookstore. Please do **not** lose this code.

University Policies: See the current [online Academic Catalog](#) for details on the following policies.

- Any student who has failed to attend a class by the tenth day of the semester will be identified as a "no show." Each "no show" student is administratively withdrawn from the class, a grade of W will be posted, and the student is NOT be reinstated. Any appeals on the decision are made to the Dean.
- A student who has withdrawn or earned less than a satisfactory grade (F, U, D, WF, W) a total of three times in a credited course at CSU will not be allowed to take the course again. Any appeals on the decision are made to the Dean.
- The mid-term grade in this course, which will be issued by October 7th, reflects approximately 30% of the entire course grade. Based on this grade, students may choose to withdraw from the course and receive a grade of "W." Students pursuing this option must fill out an official withdrawal form, available in the Office of the Registrar, by mid-term, which occurs on October 7th.
- For students in Math 1111 a grade of C or better is a prerequisite for subsequent math courses at CSU.
- Students are expected to abide by the Student Code of Conduct in the [Clayton State University Student Handbook](#). Academic integrity is of paramount importance at Clayton State University. Students who violate the conduct code regulations will face disciplinary action and/or University sanctions.
- Students are expected to attend and participate in every class meeting. The university reserves the right to determine that excessive absences, whether justified or not, are sufficient cause for institutional withdrawals or failing grades.

Grading Information:

- Your grade in this course will be determined by the points that you earn on the *best ten out of twelve* MyMathLab quizzes worth 10 points each for a total of 100 points. (The two lowest MyMathLab quizzes will be dropped.)
- In addition, the instructor will have MyMathLab homework, or other additional outside assignments, worth up to 150 points.
- Each of the three tests is worth 100 points.
- The Final Examination is comprehensive and worth 100 points. No student will be excused from taking the Final Examination, and only under unusual circumstances will a student be allowed to take the Final Examination at any time other than the regularly scheduled time. *Failure to take the Final Examination will result in the grade of "F" for the course.*

GRADING SCALE				
Grade	Percent		Points	
A	90%	100.0%	582	650
B	80%	89.5%	517	581
C	70%	79.5%	452	516
D	60%	69.5%	387	451
F	0%	59.5%	0	386

ASSESSMENT	POINTS
Homework	150
Quizzes	100
Tests	300
Final Exam	100
Total	650

Resources: Your instructor holds regular office hours and is willing to help. The Center for Academic Success (CAS) is located on the lower level of the Library, and the CAS home page is <http://adminservices.clayton.edu/cas/>. The CAS sponsors a Peer Tutoring Program. Please see the CAS website for more information and to schedule an appointment with a Peer Tutor. Additional group instruction is available from the members of the CAS staff who have advanced mathematics training. *The textbook is bundled with the solutions manual. MyMathLab has an online tutoring center available, and you will have to access the MyMathLab website to obtain this contact information.* There are materials and computer software which may be of help. If you need help on background arithmetic or algebra, there are also videotapes which may be of help. There are numerous books on algebra in the CSU library for further reference and study.

Operation Study: At Clayton State University, we expect and support high motivation and academic achievement. Look for Operation Study activities and programs this semester that are designed to enhance your academic success such as study sessions, study breaks, workshops, and opportunities to earn Study Bucks (for use in the University Bookstore) and other items.

Technology Etiquette: The computer is used extensively in this course. When you come into class you should immediately set up your computer, unless otherwise informed by your instructor. You are **not** allowed to connect to the Internet during class unless instructed to do so. During class do **not** play computer games, play music on the computer, surf the net, pass e-mail “notes”, use computer headphones, or use the computer in any way that is distracting to the instructor or any other student. Set the volume on your computer to a low setting. Outside of class, any e-mail sent to the instructor should state your name identify the class you are taking, and be sent from your student e-mail account. Remember to act professionally when sending e-mail to your instructor. Any unprofessional e-mail sent to an instructor will not be tolerated. Do not use class list emails for personal correspondence.

Students with disabilities who require reasonable accommodations need to register with Disability Services (DS) in order to obtain their accommodations. You can contact them at 678-466-5445 or disabilityservices@clayton.edu. If you are already registered with DS and are seeking accommodations for this course, please make an appointment with your instructor to discuss your specific accommodation needs for this course and give the instructor your accommodations letter.

The content of this course syllabus correlates to education standards established by national and state education governing agencies, accrediting agencies and learned society/ professional education associations. Please refer to the course correlation matrices located at the following web site:

<http://a-s.clayton.edu/teachered/Standards%20and%20Outcomes.htm>

All pagers and cell phones must be turned off during class. Please mute your computer speakers in class.

Disruptive Classroom Behavior¹

Disruptive behavior in the classroom can negatively effect the classroom environment as well as the educational experience for students enrolled in the course. Disruptive behavior is defined as any behaviors that hamper the ability of instructors to teach or students to learn. Common examples of disruptive behaviors include, but are not limited to:

- Eating in class
- Monopolizing classroom discussions
- Failing to respect the rights of other students to express their viewpoints
- Talking when the instructor or others are speaking
- Constant questions or interruptions which interfere with the instructor's presentation
- Overt inattentiveness (e.g., sleeping or reading the paper in class)
- Creating excessive noise
- Entering the class late or leaving early
- Use of pagers or cell phones in the classroom
- Inordinate or inappropriate demands for time or attention
- Poor personal hygiene (e.g., noticeably offensive body odor)
- Refusal to comply with faculty direction

Students exhibiting these types of behaviors can expect a warning from the instructor or dismissal for the lesson in which the behavior occurs. Failure to correct such behaviors can result in dismissal from the course.

More extreme examples of disruptive behavior include, but are not limited to:

- Use of profanity or pejorative language
- Intoxication

- Verbal abuse of instructor or other students (e.g., taunting, badgering, intimidation)
- Harassment of instructor or other students
- Threats to harm oneself or others
- Physical violence

Students exhibiting these more extreme examples of disruptive behavior may be dismissed from the lesson or the entire course.

Students dismissed from a lesson will leave the classroom immediately or may be subject to additional penalties. Dismissed students are responsible for any course material or assignments missed.

Students dismissed from a course have the right to appeal the dismissal to the department head responsible for the course. Appeals beyond the department head may also be pursued. If no appeal is made or the appeal is unsuccessful, the student will receive a grade of WF (withdrawal – failing) regardless of the current grade in the course.

Conditions attributed to physical or psychological disabilities are not considered as a legitimate excuse for disruptive behavior.

¹ The description of disruptive behavior and listings of examples of disruptive behavior are taken from the Web sites of James Mason University, the University of Delaware and Virginia Tech.