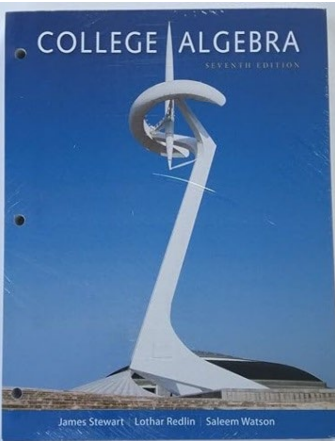


Course Syllabus Details

Topic	Detailed Information
Course Name	Online College Algebra
Course - Section and Term	MAT 1340-G81/G82. Fall 2024
GT Pathways Category	GT-MA1
Credits and Delivery Method	4 credits, online.
Time Expectation	4 credits times 3 hours per credit = 12 hours per week.
Location of Class	Online
Meeting Dates and Time	I'm on call 24/7.
Instructor	Harry S. (Steve) Mills
E-mail	hmills1@online.aims.edu
Office Location	Remote
Phone Number	970-290-0550 - Call anytime.
Office Hours	Door is always open (Meaning call me any time). We will meet in ZOOM: https://us02web.zoom.us/j/83280578288?pwd=EAT0Ql876yFip1aBv3la8AYaF1qgDu.1 Passcode: 544118
Drop Deadline Date	9/9/24
Course Withdrawal Date	11/6/24
Other Important Dates	https://www.aims.edu/resource-library/academic-calendars
Student Services	https://www.aims.edu/student-life/student-services
Mental Wellness	If you are experiencing an immediate mental health concern the following resources are available: *Call or text 988 or visit 988 LIFELINE *Colorado Crisis Services @ 1-844-493-8255 or Text "Talk" to 38255 Select Academic Policies to access more mental wellness and success resources. (https://www.aims.edu/academic-policies)

Course Requirements

Topic	Detailed Information
Prerequisite(s)	
Co-requisite(s)	None
Academic Policies – These Standards of Behavior statements apply to every course at Aims Community College and are hereby incorporated into this document.	<p>Closely review these Academic Policies. (https://www.aims.edu/academic-policies)</p> <p>Honesty, integrity, common sense and common courtesy.</p>
Materials	<p>Register for WebAssign in D2L Course Shell: Login to https://online.aims.edu/d2l/login Navigate to this course from the available thumbnails. Go to “Content > Course Information > WebAssign Portal” This is where all online homework and testing will take place.</p>
Recommended Items: 	<p>If you want a physical textbook for the course, I recommend any edition of <u>College Algebra</u>, by Stewart, Redlin, and Watson. Technically, we’re using the 8th edition, but I think any edition will suffice. Thriftbooks, eBay, Amazon, ... All can beat the price of a new book by a mile. The 8th Edition is pictured on the left. The picture on the cover is different for different editions.</p> <p>Make Good Scans: For the transmission of your handwritten work (5 writing projects), you will need to make high-quality PDFs of your well-written work.</p> <p>Some students get professional-looking scans using a phone app, like CamScanner. I recommend getting a decent printer-scanner, but you can also use a commercial copy center (like Kinko’s) near you, or use the services available at the Learning Commons..</p> <p>Here is a handy link for scanning and other technology resources available at our Learning Commons: https://www.aims.edu/departments/learning-commons/computer-and-technology-assistance</p>

Course Information

Course Description:

Course Learning Outcomes – According to the Colorado Community College Common Course Database, upon completion of this course, the student/learner should be able to:

BEGIN BOILERPLATE THAT WON'T HELP YOU, MUCH, THIS SEMESTER, but which other institutions need to see in order for credits to transfer. You may safely scroll down to page 5, if you are a student.

Your BEST overview of topics for this course may be found by correlating your Course Schedule with the table of contents in your textbook/eBook. You may safely skip down to the middle of Page 3 of this document.

GT-MA1: MATHEMATICS CONTENT CRITERIA (General)

Students should be able to:

- a) Demonstrate good problem-solving habits, including:
 - Estimating solutions and recognizing unreasonable results.
 - Considering a variety of approaches to a given problem, and selecting one that is appropriate.
 - Interpreting solutions correctly.
- b) Generate and interpret symbolic, graphical, numerical, and verbal (written or oral) representations of mathematical ideas.
- c) Communicate mathematical ideas in written and/or oral form using appropriate mathematical language, notation, and style.
- d) Apply mathematical concepts, procedures, and techniques appropriate to the course.
- e) Recognize and apply patterns or mathematical structure.

Utilize and integrate appropriate technology.

GT-MA1 COMPETENCY & STUDENT LEARNING OUTCOMES (General)

Competency: Quantitative Literacy:

Students should be able to:

1. **Interpret Information**
 - a. Explain information presented in mathematical forms (e.g., equations, graphs, diagrams, tables, words).
2. **Represent Information**
 - a. Convert information into and between various mathematical forms (e.g., equations, graphs, diagrams, tables, words).
3. **Perform Calculations**
 - a. Solve problems or equations at the appropriate course level.
 - b. Use appropriate mathematical notation.
 - c. Solve a variety of different problem types that involve a multi-step solution and address the validity of the results.
4. **Apply and Analyze Information**
 - a. Make use of graphical objects (such as graphs of equations in two or three variables, histograms, scatterplots of bivariate data, geometrical figures, etc.) to supplement a solution to a typical problem at the appropriate level.
 - b. Formulate, organize, and articulate solutions to theoretical and application problems at the appropriate course level.
 - c. Make judgments based on mathematical analysis appropriate to the course level.
5. **Communicate Using Mathematical Forms**
 - a. Express mathematical analysis symbolically, graphically, and in written language that clarifies/justifies/summarizes reasoning (may also include oral communication).
6. **Address Assumptions** (*required of Statistics courses only*)



Aims
COMMUNITY COLLEGE
COURSE SYLLABUS

Describe and support assumptions in estimation, modeling, and data analysis, used as appropriate for the course.

Topical Outline – These topics will be covered in class, but not necessarily in this order:

1. Identify properties of functions including domain, range, increasing and decreasing.
2. Apply function notation.
3. Determine the inverse of a function.
4. Examine functions algebraically.
5. Analyze behavior and roots of polynomial functions.
6. Solve polynomial, rational and absolute value equations and inequalities.
7. Analyze polynomial, exponential, logarithmic and rational functions.
8. Create graphs of polynomial, exponential, logarithmic and rational functions.
9. Solve exponential and logarithmic equations.
10. Analyze piecewise functions.
11. Graph parent functions and their transformations.
12. Utilize algebraic techniques to solve application problems.
13. Solve systems of equations.
14. Classify conic sections.

State General Education State General Education and Common Learning Outcomes: (for GT Pathways Courses)

The Colorado Commission on Higher Education has approved **MAT 2560** for inclusion in the Guaranteed Transfer (GT) Pathways program in the GT-MA1 category. For transferring students, successful completion with a minimum C– grade guarantees transfer and application of credit in this GT Pathways category. For more information on the GT Pathways program, go to <https://highered.colorado.gov/academics/transfers/gtpathways/curriculum.html>.

Aims Common Learning Outcomes – These outcomes define the expectations of an Aims Community College education and provide the benchmarks against which the college holds itself accountable. Find the outcomes at

<https://www.aims.edu/departments/institutional-research/assessment>

Course Delivery Method: Online. We will be unaffected by campus closures.

State General Education and Common Learning Outcomes: (for GT Pathways Courses)

The Colorado Commission on Higher Education has approved [*insert course prefix & number*] for inclusion in the Guaranteed Transfer (GT) Pathways program in the GT-MA1 category. For transferring students, successful completion with a minimum C– grade guarantees transfer and application of credit in this GT Pathways category. For more information on the GT Pathways program, go to <https://highered.colorado.gov/academics/transfers/gtpathways/curriculum.html>.

Aims Common Learning Outcomes – These outcomes define the expectations of an Aims Community College education and provide the benchmarks against which the college holds itself accountable. Find the outcomes at



<https://www.aims.edu/departments/institutional-research/assessment>

END BOILERPLATE. Now back to practical matters:

Attendance Policy

You are assessed entirely on the basis of the quantity, quality, and timeliness of your work. You need not attend to me. Attend to your work!

Communication and Feedback

- 1) Call or text me at 970-290-0550 if you have something urgent, or wish for a 1-on-1. I mean for this to be a 24-hour service, for your convenience, so don't be shy!
- 2) Email me: hmills1@online.aims.edu on online.aims.edu - Use Classlist from the Course Shell on D2L for best service. If you send e-mail to my regular e-mail, I might not see it for days. I empty my inbox on D2L every day, so that turnaround time is always 24 hours or less.
- 3) E-Mail Settings: 5% of your grade. Follow instructions, here: https://harryzaims.com/public_html/121-online/videos/00-Orientation/emails-settings.mp4
- 4) If you get stuck on a homework problem, and none of the online help, including my Homework Videos answers your question, use "Ask Your Teacher" (or is it "Ask My Teacher?") button in WebAssign, for best service.

Grading

E-mail Settings: 5%

WebAssign Homework: 20%

Writing Projects: 20%

WebAssign Tests: 55%

Your percent grade will therefore be calculated as follows:

$0.05 * \text{E-Mail Settings} + 0.15 * \text{WebAssign Homework} + 0.15 * \text{Writing Projects} + 0.65 * \text{WebAssign Tests}$,

Where each category is given as a percent.

Grading Scale

Percentage	Grade	Details
90% - 100%	A	(Superior and excellent)
80% - 89%	B	(Above average)
70% - 79%	C	(Average)
60% - 69%	D	(Below average level of achievement)
Below 60%	F	(Not acceptable)

Course Schedule:

When everything is due:

https://harryzaims.com/public_html/121-online/1340-online-fall-24/1340-schedule-fall-24.pdf