

This is a traditional syllabus, based on a face-to-face course. Much doesn't apply to Spring, 2021, what with COVID-19 and all, but you get a sense of what the *usual* expectations are. WebAssign homework doesn't give you the personally-graded, hand-written homework and tests that you would ordinarily receive. I think this is important training, but it's just not practical, inasmuch as this is a *Remote* section, and I can't expect people to visit campus every day to drop off and pick up homework.

As things loosen up, I would like to at *least* implement in-person, traditional tests, graded with partial credit, by hand. Regardless, I have copious hand-written solutions that I will make available, so you at least have an example of what I'm looking for. Those solutions are still a bit more cramped than I would prefer, because they were for mass distribution, so I tried to save a little paper, which is *generally* a foolish thing for a math student to do.

**INSTRUCTOR:** Dr. Harry S. (Steve) Mills, EDBH 134K, 970-290-0550 (Cell).



**E-mail:** [hmills1@online.aims.edu](mailto:hmills1@online.aims.edu), or use "E-Mail" link on the Main NavBar in the Course Shell: <http://online.aims.edu> and click on "Harry Mills" link in the listing.

**Emergency e-mail:** [steve.mills@aims.edu](mailto:steve.mills@aims.edu) (NOT preferred. Leads to teacher irritability.)

**Course Websites:** Log in to [Aims Online](https://online.aims.edu/) ( <https://online.aims.edu/> ). Navigate to this class's course shell. Use the course shell to send me e-mail and check for announcements.

I don't plan on more than one or two announcements most weeks. If you check once or twice per week, you should be plenty caught up. Announcements are Last-in-first-out, which means the latest announcement is at the top.

**Archive server:** <http://harryzaims.com/>, a private server on which I house everything I have to say about the content. The method of instruction is heuristic, which is to say that I explain the concepts in the context of the homework exercises on the Pearson site.

### Course Description:

Focuses on a variety of functions and the exploration of their graphs. Topics include: equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways. This is a statewide Guaranteed Transfer course in the GT-MA1 category.

### Required Materials:

**Textbook:** **College Algebra**, 6th Edition, Dugopolski. There are options for the book.

- You can buy it bundled with MyMathLab access code (New Books Only)
- You can buy it used.
- You can just buy access to the eBook, by purchasing MyMathLab access, direct from the Pearson Website. Instructions on how to register for the Pearson site are here: [Register for Pearson Site](#).
- There's a looseleaf version of the textbook that's cheaper than the hard-back book.

**Scientific Calculator:** The TI 30X IIB or comparable product with a Previous Entry feature is preferred. When you can see what you entered, you'll make fewer mistakes, be able to fix any mistakes you make, and explore patterns, by changing one thing in a big formula, and seeing how the output changes, without having to re-enter the whole long expression. What you want is a calculator just one step below a graphing calculator, that lets you edit the entries like you do in a graphing calculator.

**Electronic Graphing Capability:** While we're denying their use on tests, a graphing calculator, or graphing app on your smartphone, or one of the many free online graphers, available online, *must* be used, to do *some* of the

explorations that come up in the homework. You might want to check out [WolframAlpha](#) for an all-purpose tool. You just kind of type in what you want, and it does it! The better you learn the math terminology, the better you will be with the WolframAlpha. You'll want to use whatever works for you, but you will need some standard graphing calculator capabilities for some of the assigned exercises.

GRAPHING CALCULATORS ARE NOT PERMITTED ON TESTS.

**MyMathLab:** Registering for MyMathLab and using it to work and submit homework is required for ALL ONLINE students. [Registering is Easy](#) and you get a free trial for 2 or 3 weeks.

**Videos by the Instructor:** Virtually every problem I've assigned, for the semester, is worked, by me, on a video. I keep all those videos in my [Videos Directory](#) (<https://www.harryzaims.com/121-all/videos/>). Sometimes the **numbers** are different, but yeah, I pretty much have worked every exercise, if you get stuck, and want to ask about it. BOOM! There's my 5-minute spiel on the problem.

Some students aren't too keen on my approach. They can get the Pearson approach by using the help on the Pearson site, which also has targeted videos for each exercise. But I'm more stringent on some things and generally quicker and slicker on *most* things. The biggest shortcoming on the Pearson is the GRAPHING. There's an *art* to providing enough information without wasting time on trivia.

**Grades: 4** Categories: Tests (60%), Homework (20%), Writing Projects (10%), E-Mail Settings (10%)

**Tests:** These will count 70% of the final grade. There are 5 of them. I drop the lowest test, except for the Comprehensive Final Test at the end. Due to COVID-19, it appears we will be doing online testing. This *may* change, as restrictions are loosened. There are some quality-control issues with online testing, and we will return to in-person testing as soon as it is permitted.

**Makeup Tests, Deadlines and such:** Makeup tests generally require a college-excused absence. I reserve the right to make exceptions, but it's very difficult to get an exception, and they tend to receive only half-credit. Being lax on this is disrespectful to every student who shows up at the appointed time and place.

**Homework:** Homework will comprise 20% of your grade. It is delivered entirely online by the Pearson site. You should write up your homework, for future reference and to just master the concepts, better. But you will be DOING all the homework on Pearson's MyMathLab for this online section of the course. To get started, follow the [MyMathLab link, here](#), or with the "Register for Pearson" link on the Course Shell at <https://online.aims.edu>.

**The videos I made for the homework** are here: <https://harryzaims.com/121-all/videos/03-Writing-Projects/Writing-Project-3/video/>. I used the assigned exercises as a vehicle for explaining everything to you. It comes to something more than I could squeeze into our face time, in the old-fashioned way, but it provides far more detail, and it's on-demand, 24/7. This resource is great for when you get stuck.

Some students just take the time to watch the videos and then do the homework, later. Some watch the video and do the problem. *All* students should compare their work with the notes I put alongside the videos. All students should watch the videos, because I always mention what I'm looking for and what type problems you will be seeing on tests. If you're not doing it at all like I am in the notes (that are found in the Videos directories), you probably want to watch the corresponding videos, to make *sure* you're getting it.

For example, 1.3 Notes are here:

<https://harryzaims.com/121-all/videos/01-Homework-Videos/01-Chapter-01/1-3-distance-midpoint-circles/1-3-notes.pdf>.

and anything in the notes that looks foreign, just check out the lecture video that goes with it, here:

<https://harryzaims.com/121-all/videos/01-Homework-Videos/01-Chapter-01/1-3-distance-midpoint-circles/videos/>.

20% is a small fraction of the total points, but Homework is the heart and soul of the course. It's where you *learn* this stuff. You can just do it to earn points or you can use it as a learning tool. If you're just jumping through hoops for homework points, chances are good that your written test scores will be poor.

If you "cheat" the homework, I'll get you on the test, and the test weighs 3.5 times as much as the homework!

**Homework Deadlines:** I will keep tabs on the progress you've made, fairly loosely, until the end. Every couple of weeks or so during the semester, I will survey everybody's progress and send everybody an e-mail that will contain one of two possible messages: "You're getting things done like I'm looking for" OR "You're behind and I'm worried about you." When the MyMathLab shuts down on December 11th, that's **the** deadline. Of course, if you don't do the work, every day, you will fall hopelessly behind, and the tests are all based on the assigned Homework and Writing Projects.

**Writing Projects:** Writing Projects comprise 10% of your grade. There are FOUR (4) Writing Projects. ( Instructional videos for these are here: <https://harryzaims.com/121-all/videos/03-Writing-Projects/Writing-Project-3/video/> )

I wouldn't worry about them, the first week. Think of Writing Projects as a homework assignment that's extra long and you need to write up, extra nicely. But the first week of school, you have bigger fish to fry, finding where all the resources are and getting rolling on the Homework on Pearson.

**Writing Project Deadlines:** Writing Projects are due when you come take your test over the material the project covered. See the [Course Schedule](#) for details. There's an Early-Bird bonus for turning them in the Friday before the test, in class.

**Final Test:** This test, at the end, is the only test that you may not drop. Otherwise, we drop your lowest test score. I will give Final Test Open Dates later this semester, as we figure out how the testing is going to work.

**Adjust E-Mail Settings:** You need to change your e-mail settings to "include previous message in replies." If you don't do this, you deprive me of the previous conversation. I will respond with "What?"

**Grading Scale:** 90% - 100% A 80% - 89% B 70% - 79% C 60% - 69% D

**How to Operate:** My biggest thing, early, is to clear away the distractions, and keep you focused on the fast path to completion. There are *many* resources available, but only a minimum number of activities that I *require*.

1. Carve out 12 hours per week, to begin with. 3 hours a day, 4 days a week is a typical face-to-face schedule, with 4 of a week's hours in class, and 8 hours out of class. Most students will find that some weeks may take longer than others, depending on your pre-existing skills or the difficulty level of the topics.
2. Focus on keeping up with the Chapter homework, in the [Course Schedule](#) . The Course Schedule tells you what's next and when it should be completed.
3. There are optional assignments in Chapter P, for "prerequisite." I'm in the process of prepping videos for those problems. (5 sections down, 2 to go). All the rest of the assignments have video sets from me, as well as whatever help you can find on Pearson site, or elsewhere. This material could be useful, if you need to brush up on a topic. If you feel like I'm talking over your head, take the time to go through the Chapter P material, a little bit at a time, and I bet I start making more and more sense...

Everything beyond this point in the syllabus is standard state boilerplate for College Algebra. I think you'd get more for *your* purposes by just looking at the Course Schedule and scanning the table of contents in the textbook, for what's covered and when.

**Important Dates:** Last Day to Withdraw is April 7<sup>th</sup>. Other dates of importance are listed in the [Course Schedule](#).

**Comprehensive Final Exam:**

The final exam will be comprehensive.

**Calculators:**

Graphing calculator or graphing utility capabilities will be needed for some of the homework. Scientific calculators may be used. Graphing calculators, cell phones, iPads, and other electronic devices with scanning or photo ability may NOT be used while taking a written test or final exam.

**Standard Syllabus Policies Link:**

A Standard Syllabus Policies link has been created for students to access. Students are responsible for reading each of the policies. The standard syllabus policies are located at <http://www.aims.edu/inside/policies/standard-syllabus/> and apply to every course at Aims Community College.

**Course Evaluations:**

Online course evaluations for most classes will be available for students to complete during the last 2 weeks of the spring semester. Other short course evaluations will be available at various times, depending on their course start and end times. Students will receive an email message directing them to a website where they can login using their Aims ID and complete evaluations. All course evaluations are confidential.

Student Course Evaluation Website: [aims.campuslabs.com/courseeval](http://aims.campuslabs.com/courseeval)

**Student Code of Conduct:**

Common sense and common courtesy are the rule. Forget those, and we will find where you violated the [Student Code of Conduct](#). Otherwise, I'm not at all interested in the boilerplate the bureaucrats love so much.

**Learning Outcomes and Other Boilerplate:**

See the regular syllabus for the long-winded version that the technocrats love. For a practical understanding, look at the homework listing on the Pearson MyMathLab.