

MATHEMATICS COMPUTER LABORATORY

MATH 1200, CRN 24509, Fall 2026

http://faculty.weber.edu/aghoreishi/Math1200_F26/Math1200_F26.asp/

Prerequisites/Corequisites: Prerequisites: Math 1050 and Math 1060 or Math 1080, or Corequisite: Math 1210

Class Meetings: This course will be delivered online. There are two online lectures in Canvas Modules to help you get started. However, the entire course is self explanatory. In the first week, you must view the First Lecture and complete labs 1 and 2. In the second week, you must view the Second Lecture and complete Lab 3.

Software Access: You may access the required software, Wolfram, previously called Mathematica, in the following three ways. I highly recommend that you follow the first option.

1. Get your own free copy at https://www.weber.edu/software/mathematica_request.html. Activate your copy of Mathematica through "Activate through your organization (SSO)". See Wolfram support page <https://support.wolfram.com/54713> for help. If you need a laptop/tablet, contact WSU Computing Services <https://www.weber.edu/ComputerLabs/laptopcheckout>.
2. Any campus computer lab, including Tracy Hall Computer Lab, TY 126, and Elizabeth Hall Computer Lab, EH 213.
3. Virtual Lab: For the Virtual Lab instructions, see <http://weber.edu/virtuallab>.

Reference Texts: The following texts are suggested but **not** required.

1. The Student's Introduction to Mathematica - A Handbook for Precalculus, Calculus, and Linear Algebra, Bruce F. Torrence and Eve A. Torrence, Cambridge.
2. Mathematica: A Problem-Centered Approach, Roozbeh Hazrat, Springer.
3. The following text is part of the help menu of Mathematica. The Mathematica Book, Stephen Wolfram, Cambridge.

Instructor Information: Dr. Afshin Ghoreishi, <http://faculty.weber.edu/aghoreishi/>. Office: TY 450M. Office Hours: M 10:30-11:20, T 9:30-10:20 and 10:30-11:20, W 10:30-11:20 and 12:30-1:20, and F 10:30-11:20. At other times, you can see me whenever I am in my office and not busy. You can also see me by making an appointment. However, our main method of communication will be through email. My Email address is aghoreishi@weber.edu. We can communicate through email or in a Zoom meeting, <https://weber.zoom.us/j/8037501124/>. Include the file you are working on with your email.

Objectives: To obtain a basic understanding of a computer algebra system so that it can be used in subsequent mathematics classes. Because our current lab supports Mathematica, we will use that program.

Course Coverage: General syntax of Mathematica commands. Solving problems related to the student's current mathematical training.

Procedures: This course consists of eleven labs. Each will take 1 to 4 hours. You must attend the first two classes. After the first two classes, we will correspond electronically. You will access Mathematica in one of the three ways stated above.

You will submit your work electronically. **Get your labs from** <http://faculty.weber.edu/aghoreishi/>, or **Canvas website under assignments**. Upload your finished notebook (.nb file) in Canvas, using the Submit Assignment button. (Don't email your lab to me since due to large number of students and emails, I might lose track of them.) For help, send me an email describing the problem and attaching your file. We can also set up a Zoom meeting.

Grading: Your grade will be solely based on your performance on the projects. We expect your work to be:

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| 1. correct and precise, | 2. well written and polished, |
| 3. neat and clear, | 4. all extraneous materials should be deleted. |

Grading of each lab will be on a 20-point scale. We will use a modified standard scale for the course.

Ethical Conduct: The Weber State University policy regarding all forms of academic dishonesty, including cheating, fabrication, facilitating academic dishonesty, and plagiarism will be strictly enforced. Penalties for academic dishonesty may include failure from the course. The policy can be found online at <http://documents.weber.edu/ppm/6-22.htm>.

Project Completion/Due Dates: All labs are for **Wofram version 15.x**.

- Lab 1 (Not to be turned in.) - **1st week**, (week of Aug 24)
- Lab 2 (Not to be turned in.) - **1st week**, (week of Aug 24)
- Lab 3 - Start in 2nd week, Due on Tuesday **September 8**
- Lab 4 - Start in 3rd week, Due on Tuesday **September 15**
- Lab 5 - Start in 4th week, Due on Tuesday **September 29** (one extra week)
- Lab 6 - Start in 6th week, Due on Tuesday **October 6**
- Lab 7 - Start in 7th week, Due on Tuesday **October 20** (one extra week)
- Lab 8 - Start in 8th week, Due on Tuesday **October 27**
- Lab 9 - Start in 10th week, Due on Tuesday **November 10** (one extra week)
- Lab 10 - Start in 12th week, Due on Tuesday **November 17**
- Lab 11 - Start in 13th week, Due on Tuesday **December 1** (one extra week)

You have the option of redoing one of the earlier labs to improve your score. This lab will be due on Wednesday, **December 2**.

WSU's Virtual Lab Software

Go to <http://weber.edu/virtuallab> for instructions to access and use Virtual Lab Software. A new HTML5-ready system is being used. You can access it through <https://weberstate.apporto.com/>.

Other Info:

If you having problems call **801-626-7777** – IT Service Desk or go to the WSU help page (<http://weber.edu/help>) and click on the “Live Chat” button.