

How to pass Math 199: A Step-by-Step Guide

Your grade in Math 199 is determined by the number of weeks that it takes you to pass all five Gateway Tests in the proctored Friday evening sessions. This step-by-step guide will help you pass Math 199 and develop the skills you need to succeed in Math 231 as quickly and efficiently as possible. If you work hard and set time aside now, you can be finished with Math 199 in the first 2-3 weeks of the semester.

1. **Enroll:** Register for Math 199 on *MyMadison*, purchase a \$10 access code for *MyMathTest*, and register for the online *MyMathTest* course. See the Math 199 syllabus for more information.
2. **Learn how to enter answers:** Within *MyMathTest*, click on “Take a Test” and then on “Qualifier 1”. Before starting the test, click on the tutorial for “how to enter your answers” and watch all the sections of the screencast tour. Remember that Math 199 is an independent online course, so you will need to know how to use *MyMathTest* to learn the material to pass your qualifiers and gateways.
3. **Attempt Qualifier 1:** Within *MyMathTest*, click on “Take a Test” and then on “Qualifier 1”, and then on “I am ready to start”. Make sure that you set aside enough time so that you can go through the problems carefully and do your best, because your performance on this Qualifier will determine your *Study Plan*. Do not use any outside materials or calculators because those will not be permitted on the Gateway tests.
4. **Wait, don’t try it again...yet:** You may have not passed Qualifier 1 with 8/10 or above on your first attempt. That is okay, because you can take Qualifier 1 as many times as you like. However, we recommend that you do NOT retake this qualifier until you have spent time studying and learning within your “Study Plan” in *MyMathTest*. The main way that you will learn in this course is by going through the problems and resources in your Study Plan. This independent online learning is what replaces traditional classroom lectures in Math 199, and you should take advantage of it. You won’t magically know how to do the problems in the qualifier on the second or third attempt unless you first set aside some time to study and learn the material you missed.
5. **Don’t try any other qualifiers either...yet:** We also recommend that you do not attempt Qualifier 2 until you have successfully passed Qualifier 1 or at least worked through your Study Plan questions from Qualifier 1, because each qualifier that you attempt will add items to your Study Plan. If you take too many qualifiers at once then your Study Plan will get very crowded and it will be difficult for you to figure out which problems to review for each of the qualifiers.
6. **Use your Study Plan:** Within *MyMathTest*, click on “Study Plan” and look for the items marked with the purple thumbtacks. These items are selected for you in *MyMathTest* based on the problems that you answered incorrectly on Qualifier 1. Open up the sections marked with thumbtacks and attempt the problems marked with thumbtacks. There is a “Watch Section Video” resource for each section. In addition, within the problems themselves you can make use of resources on the right side of the screen such as “Help Me Solve This”, “View an Example”, or even sometimes “Video” help. You can also use “Check Answer” at the bottom of the screen to see if you are on the right track and to get hints about how to proceed. When you have successfully solved a problem, it will be listed with a green check-mark next to its thumbtack. Take your time and try to check off all of your thumbtack problems before returning to take Qualifier 1 another time.

7. **Retake Qualifier 1:** When you feel confident about all of the thumbtacked problems in your Study Plan, go to “Take a Test” in *MyMathTest* and retake Qualifier 1. If you pass with 8/10 or better then congratulations; you qualify for taking Gateway 1 in the next Friday evening testing session! If you still don’t have 8/10 or better on Qualifier 1 then return to the previous step and go through your Study Plan again; there will be new problems marked with thumbtacks and in addition you can review your previous thumbtack-ed problems again.
8. **Study for Gateway 1:** Gateway 1 has similar material to Qualifier 1. Even after you have qualified for Gateway 1 you can study by taking Qualifier 1 additional times and by reviewing Study Plan problems. Your highest qualifier score is what qualifies you for the Friday gateway test, so don’t worry about scoring less than 8/10 on the qualifier tests while you are reviewing. Once you’ve qualified you can’t get “un-qualified.”
9. **Now move on to more Qualifiers:** Repeat steps 3–8 for Qualifier 2. Then move on to Qualifiers 3, 4, and 5 if you can. You will be allowed to take each qualified gateway test up to two times on any given Friday. Note that to get a grade of ‘A’ in Math 199 you will need to pass all five gateways in the first two Friday testing sessions. If it takes you the first three weeks to pass all five gateways then you will get an ‘A-’ in Math 199. If you pass in the first four weeks you will get a ‘B+’, and so on. This means that you should try to qualify for as many gateways as possible before each Friday evening testing session.
10. **Take Gateways on Friday night:** Gateway Tests are available only in the Friday evening proctored sessions, from 5pm to 8pm in Roop 127. When you get to the testing room please wait at the door until the proctor seats you at a computer. After you log in, the proctor will review the gateways that you are qualified for and enter a password so that you can begin taking a gateway.

Rinse and repeat: Go through steps 3–10 as many times as needed until you have passed the course. Once you have passed all five Gateway Tests in the proctored Friday sessions, you are done with Math 199! We hope that by passing Math 199 as quickly as possible you will obtain the skills that you need to succeed in Math 231 this semester.

What to do if you need additional help:

- **Math 199 tutoring sessions:** You can get help using the *MyMathTest* software and with the mathematical material in the qualifiers during the Wednesday evening Math 199 tutoring sessions, from 5:00-8:00pm in Burruss 030. Please note that the tutor will not help you pass a qualifier test during these sessions, because you need to show that you can qualify for the gateways on your own. However, the tutor will be very happy to help you with any of the material in your Study Plan and with any other questions you have.
- **Science and Math Learning Center:** You can also get help on any mathematical topic from the tutors at the SMLC in Roop 200, Sun 5-8pm, M-Th 10am-8pm, F 10am-2pm.
- **Clearing your Study Plan:** If your Study Plan gets too cluttered then you can have it cleared by one of the coordinators by emailing a request to duceyje@jmu.edu or taalmala@jmu.edu. Clearing your Study Plan will not affect your progress in the qualifiers and gateways; it will only clear out the thumbtack marks.
- **Using *MyMathTest* throughout Math 231:** If you click on “Show All” in your Study Plan, you will see a long list of topics that you can review within *MyMathTest*. These topics include many things that you will be learning in Math 231, so if you like you can use *MyMathTest* to study topics and skills through differentiation and integration that might help you in Math 231 and Math 232.