Programs with a Calculus Requirement

The programs listed reflect the **minimum** Calculus requirement for that major. Additional higher level math courses may also be required.

The two semester sequence of MATH 123 & 124 is the equivalent of MATH 113 and can be taken instead.

MATH 113 can satisfy the MATH 108 requirement, but MATH 108 cannot satisfy the MATH 113 requirement.

For more information about program requirements for majors: [https://catalog.gmu.edu/programs/](https://catalog.gmu.edu/programs/)
for pre-health: [https://prehealth.gmu.edu/professions/](https://prehealth.gmu.edu/professions/)

**MATH PLACEMENT TESTING**

If you are pursuing or plan to pursue a major or pre-health track that has a calculus requirement, you will need Math Placement Testing unless

- you have AP/IB test or transfer credits for the course you need or its pre-requisite
- or you have an AP/IB test score that places you in the course you need

Placement Testing is also required for MATH 125 and CS 112; however, any major that requires these courses also requires MATH 113.

More information about Math Placement Testing is on the other side of this handout and at this website: [https://science.gmu.edu/academics/departments-units/mathematical-sciences/mathematical-sciences-testing-center](https://science.gmu.edu/academics/departments-units/mathematical-sciences/mathematical-sciences-testing-center)
Math Placement Test
This flow chart shows the prerequisites required for 100-level math courses as of Spring 2023

No Placement Test Required
- Math 106 (Quantitative Reasoning)
- Math 110 (Introductory Probability)
- Math 111 (Linear Mathematical Modeling)

Placement Test Exemptions
- A score of 3 or higher on AP Calculus exam will allow placement into Math 113 and CS 112. Students will also receive credit for Math 123 and may choose to take Math 124 to fulfill their Calculus I requirement. *department override required
- A score of 4 or higher on IB HL Analysis and Approaches exam will allow placement into Math 113 and CS 112 *department override required
- Students who have received transfer credit for Math 103T may register for Math 105, Math 108 or Math 125.

Math Placement Test ALEKS Score of 55 or higher
- Math 105 (Precalculus) *Grade of C or better will get you into Math 113 or CS 112
- Math 108 (Business Calculus) *Completion of this course will NOT get you into Math 113

Math Placement Test ALEKS Score of 65 or higher
- Math 123 (Calculus I part I) & Math 124 (Calculus I part II) These classes combined are equivalent to Math 113**
  - Completion of BOTH Math 123/124 with a C or better will get you into Math 114
- Math 125 (Discrete Mathematics) You may also register for this course if you have already passed either Math 105, 108, 113 or 124

Math Placement Test ALEKS Score of 80 or higher
- Math 113 (Calculus I)
- CS 112 (Intro to Computer Programming)

*For a departmental override please visit the Math Department website and request an override through the webform provided [https://science.gmu.edu/academics/departments-units/mathematical-sciences](https://science.gmu.edu/academics/departments-units/mathematical-sciences) Overrides are only granted if the prerequisites are satisfied in some alternate way. The Mathematical Sciences Department does not waive prerequisite requirements.

**Students who take both Math 123 and Math 124 are given credit that is equivalent to Math 113. This is a year-long Calculus I sequence and after the student gets a C or better in Math 124 they are eligible to take Math 114. Students must first take or have credit for Math 123 before taking Math 124.