

Programs with a Calculus Requirement

last updated January 2024

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/>
for pre-health: <https://prehealth.gmu.edu/professions/>



Majors



Pre-health

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>



MATH 108

Business, CCB
Economics (BA), CHSS
Information Technology, CEC

MATH 113

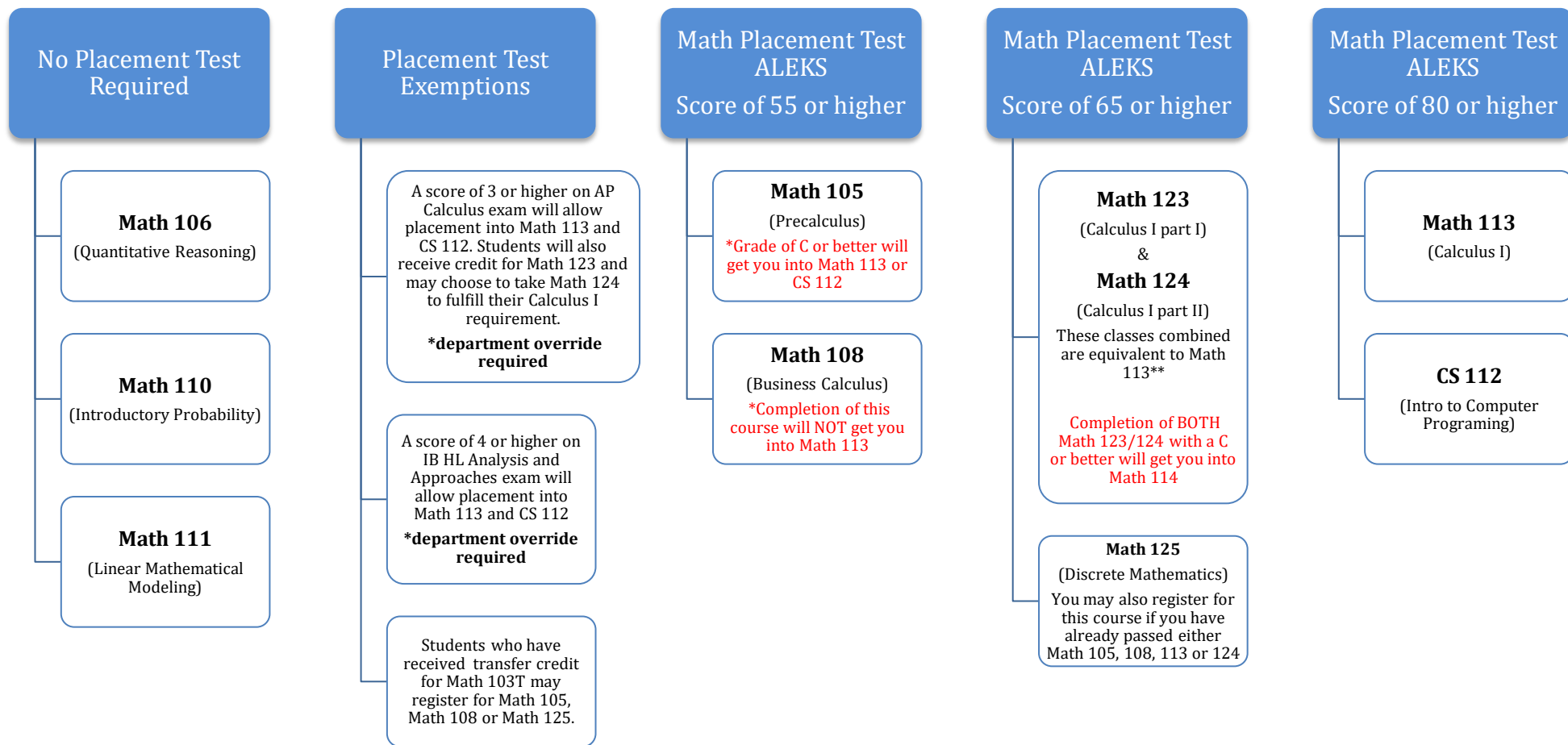
Applied Computer Science, CEC
Astronomy, COS
Atmospheric Sciences, COS
Bioengineering, CEC
Chemistry (BA & BS), COS
Civil & Infrastructure Engineering, CEC
Computational and Data Sciences, COS
Computer Engineering, CEC
Computer Science, CEC
Cyber Security Engineering, CEC
Economics (BS), CHSS
Electrical Engineering, CEC
Forensic Science, COS
Geography (BS), COS
Geology (BS), COS
Mathematics (BA & BS), COS
Mechanical Engineering, CEC
Neuroscience, COS
Physics, COS
Statistics, CEC
Systems & Industrial Engineering, CEC
Undeclared/Undecided Engineering, CEC

Pre-Optometry
Pre-Pharmacy
Pre-Veterinary Medicine
Pre-Medicine (recommended)
Pre-Physical Therapy (recommended)
Pre-Physician Assistant (recommended)

CCB - Costello College of Business
CEC - College of Engineering and Computing
CHSS - College of Humanities and Social Sciences
COS - College of Science

Math Placement Test

This flow chart shows the prerequisites required for 100-level math courses as of Spring 2023



*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> 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.