

Math Level 20 Placement

There are three different pathways to the math course required for your academic goal. Two of these pathways, Quantitative Reasoning and STEM, are intended for students planning to transfer to a four-year institution and the third is for those in Career and Technical Education (CTE) programs.

The STEM path is for students whose academic goal is a Bachelor's degree in fields such as Engineering, Computer Science, Business, Biology, and others. If you are on this path, Math Level 20 places you into [MTH 112](#) or [MTH 241](#).

Math 112 is the class for you if you are considering majors such as Science, Engineering, Mathematics, Kinesiology and others. This course assumes students have the college algebra foundation necessary to continue towards calculus and prepares students to take MTH 251.

Math 241 is the class for you if you are considering majors such as Business, Economics, and others. This course introduces basic concepts of differential and integral calculus with an emphasis on business applications.

Success in the above two classes is more likely if you have strong skills in the following topics **before** taking the course.

- Model and solve problems involving linear, quadratic, polynomial, rational, exponential, and logarithmic functions
- Ability to use graphing technology
- Understanding of functions, including function notation, evaluating functions, determining domain and range of a function, function inverses and transformations of functions

The Quantitative Reasoning path is for students whose academic goal is a Bachelor's degree in fields such as Music, Psychology, Art, History, Nursing and others. If you are on this path, Math Level 20 places you into [MTH 243](#).

Success in Math 243 is more likely if you have strong skills in the following topics **before** taking the course:

- Ability to represent data using a variety of graphical techniques (e.g. scatterplots) and draw conclusions from the data
- Ability to use spreadsheets and/or graphing technology
- Familiarity with functions and function notation
- Ability to read a complex problem requiring quantitative and/or symbolic analysis and determine the reasonableness and implications of solutions

Your advisor will help you determine the correct path and course for your academic goal. More information on the complete paths is available here: [Math Course Flow 2020-21](#)

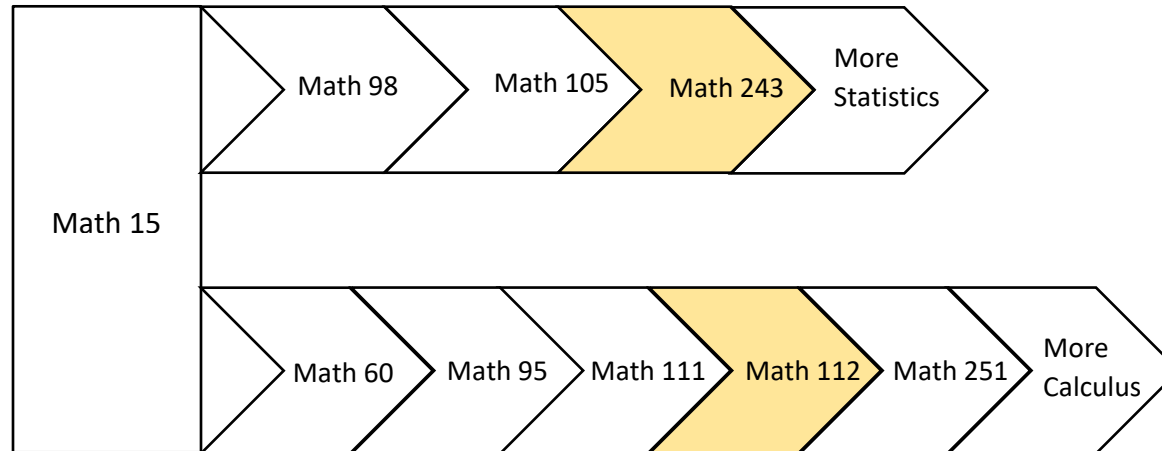
Questions about your math placement? Email mathplacement@cocc.edu

Math Course Pathways

Below are some questions to consider before you meet with a COCC advisor. Remember, you do not need to make the decision about which pathway you are on by yourself – you will have advising help in the future to guide your choice.

Are you considering a field such as Music, Psychology, Art or History?

Quantitative Reasoning Pathway (path to Statistics)



Are you considering a science field such as Engineering, Computer Science or Biology?

STEM Pathway (path to Calculus)

Are you considering a Career-Technical field such as Automotive, GIS, or Welding?

Career-Technical Education (CTE) Pathway

