

Calculus Advising Guidelines

Key to course numbers:

MAT 111: College Algebra

MAT 112: Trigonometry

MAT 116: Precalculus

MAT 116P: Calculus Placement

MAT 211: Calculus and Analytic Geometry I

MAT 212: Calculus and Analytic Geometry II

MAT 213: Calculus and Analytic Geometry III

Students scoring 29 or higher on the mathematics portion of the ACT (or SAT math 650 or higher):

1. Students may enroll today in MAT 211 (assuming they have learned some trigonometry).
2. If the student has taken an AP calculus exam and have received their score, see the section “AP enrollment guide” for possible additional options.
3. If the student has taken a calculus course for college credit, see the section “Students with college mathematics credit” below for possible additional options.

Students scoring 22 or below on the mathematics portion of the ACT (or SAT math 530 or below):

1. We highly recommend that the student completes credit for MAT 116 (or for both of MAT 111 and MAT 112) before taking calculus at Union.
2. If the student taken a mathematics course for college credit, see the section “Students with college mathematics credit” for possible additional options.
3. If (2) does not apply, enroll in MAT 116 today.

Students scoring 23–28 on the mathematics portion of the ACT (or SAT math 540-640):

1. Knowledge of trigonometry is required for calculus. If the student has not learned trigonometry, then enroll in MAT 116 today.
2. If the student has taken a mathematics course for college credit, see the section “Students with college mathematics credit” below for possible options.
3. If the student has knowledge of trigonometry but does not have college credit for prerequisites for calculus, then the student may take the Calculus Readiness Test (CRT) in order to determine if they are ready to take calculus. Proceed as follows:

- a. Choose a time slot when the student would like to take calculus (MAT 211). Then enroll today in two sections:
 - i. Enroll in the section of MAT 116P Calculus Placement that lists the same time slot as the calculus course the student wishes to take.
 - ii. Enroll in the Calculus Readiness Test, MAT 000PT. This is a 0-credit summer course for which the student will not be charged. To do so the student will need a summer registration form prefilled with the CRT information, available from their advisor or from the mathematics department. The student may choose any of the sessions for the CRT that are available on the registration form. If the student plans to take the AP calculus exam, they should register for the CRT in July so that their AP score will be known. If their AP score is 3 or higher, they do not have to take the CRT.
- b. During the first week of the student’s scheduled CRT session, the student should receive an email from Chris Rowland, CRT Coordinator, letting them know how to access the Calculus Readiness Test. This online test should take approximately 40 minutes, and results are immediate. Students are allowed two attempts at the test. Further information will be available at that time. **If the student does not receive an email by the end of the first week, they should contact Chris Rowland at crowland@uu.edu.**
- c. After the student’s scheduled CRT session, when all results from the CRT are complete, students will be moved to the section of MAT 116 or MAT 211, as appropriate, that meets in the same time slot as the MAT 116P in which the student was enrolled. If, due to high enrollment in a particular section, we need to place the student into a section meeting at a different time, we will do so without changing

other courses they are taking; the student will be notified of the change by an email from the CRT Coordinator.

Students taking an AP calculus exam:

1. If the student has already received their AP calculus results, then they may enroll today in the appropriate calculus class; see the AP enrollment guide below.
2. If the student has not yet taken the exam or if they have taken it but have not yet received their score, then proceed as follows:
 - a. Enroll today as per the instructions for your ACT score.
 - b. When their AP results are received and recorded by Union, they may contact their enrollment counselor regarding changing their schedule to enroll in the appropriate course as per the AP enrollment guide below.

AP enrollment guide:

1. A student scoring 4 or 5 on the Calculus AB exam may enroll in MAT 212.
2. We recommend that a student scoring 3 on the Calculus AB exam take MAT 211 before taking MAT 212, but the student is allowed to enroll in MAT 212.
3. A student scoring 4 or 5 on the Calculus BC exam may enroll in MAT 213. Enrollment in MAT 212 is also chosen by many such students and should be considered as an option.
4. We strongly recommend that a student scoring 3 on the Calculus BC exam begin with MAT 211 or MAT 212, but the student is also allowed to enroll in MAT 213.

Students with college mathematics credit:

1. If the student's college transcript has been received, evaluated and recorded by Union, then they may enroll as per the course prerequisite guide below.
2. If the student is currently taking a college mathematics course, or if they have completed a college mathematics course but have not yet had their college transcript sent to Union or it has not yet arrived, proceed as follows:
 - a. Sign up for the course the student is eligible to take based on other criteria or enroll in MAT 116P to reserve a time in their schedule without committing to a particular course.
 - b. Have their college transcript sent to Union as soon as possible.
 - c. When they receive their transcript evaluation, if they did not receive the credit they expected, contact the enrollment counselor to make the appropriate enrollment change.

Course prerequisite guide

Course	Prerequisite
MAT 213	MAT 212
MAT 212	MAT 211
MAT 211	One of the following: (1) MAT 116; (2) MAT 111 and MAT 112; (3) Math ACT score of 29 or higher; or (4) a passing score on the calculus readiness test