

Taking Calculus at Union University

New Student Registration

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. You may enroll today in MAT 211 (assuming you have learned some trigonometry).
2. If you have taken an AP calculus exam and have received your score, see the section “AP enrollment guide” for possible additional options.
3. If you have 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 you complete credit for MAT 116 (or for both of MAT 111 and MAT 112) before taking calculus at Union.
2. If you have 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 you have not learned trigonometry, then enroll in MAT 116 today.
2. If you have taken a mathematics course for college credit, see the section “Students with college mathematics credit” below for possible options.
3. If you have knowledge of trigonometry but do not have college credit for prerequisites for calculus, then you may take the Calculus Readiness Test (CRT) in order to determine if you are ready to take calculus. Proceed as follows:
 - a. Choose a time slot when you would like to take calculus (MAT 211) and enroll today in the section of MAT 116P Calculus Placement that lists that time slot.
 - b. You will be enrolled in the Calculus Readiness Test, MAT 000PT, about one week after your summer orientation session. This is a 0-credit summer course for which you will not be charged. You should then receive an email from Megan Murphy, CRT Coordinator, letting you 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 you do not receive an email by the end of the first week contact Megan Murphy at mmurphy@uu.edu.**
 - c. After your 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 you into a section meeting at a different time, we will do so without changing other courses you are taking; you will be notified of the change by an email from the CRT Coordinator.

Students taking an AP calculus exam:

1. If you have already received your AP calculus results, then you may enroll today in the appropriate calculus class; see the AP enrollment guide below.
2. If you have not yet taken the exam or if you have taken it but have not yet received your score, then proceed as follows:
 - a. Enroll today as per the instructions for your ACT score.
 - b. When your AP results are received and recorded by Union, you may contact your enrollment counselor regarding changing your 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 your college transcript has been received, evaluated and recorded by Union, then you may enroll as per the course prerequisite guide below.
2. If you are currently taking a college mathematics course, or if you have completed a college mathematics course but you have not yet had your college transcript sent to Union or it has not yet arrived, proceed as follows:
 - a. Sign up for the course that you are eligible to take based on other criteria or enroll in MAT 116P to reserve a time in your schedule without committing to a particular course.
 - b. Have your college transcript sent to Union as soon as possible.
 - c. When you receive your transcript evaluation, if you did not receive the credit you expected, contact your 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

Course transfer guide

1. In order to transfer in as MAT 116, a precalculus course must serve as that college's prerequisite to their mainstream calculus I course.
2. "Precalculus Algebra" usually transfers in as MAT 111 College Algebra.
3. "Precalculus Trigonometry" usually transfers in as MAT 112 Trigonometry.
4. "Business Calculus" and "Calculus for the Social Sciences" usually transfer in as MAT 201 Applied Calculus, which is not equivalent to MAT 211 and does not serve as a prerequisite for MAT 211.
5. A score of 3 or higher on the Calculus AB exam gives credit for MAT 211.
6. A score of 3 or higher on the Calculus BC exam gives credit for both MAT 211 and MAT 212.
7. A sufficient score on the CLEP College Algebra exam gives credit for MAT 111.
8. A sufficient score on the CLEP Precalculus exam gives credit for MAT 116.
9. A sufficient score on the CLEP Calculus with Elementary Functions exam gives credit for MAT 211.

FAQ page: <http://www.uu.edu/dept/math/crt.cfm>