



MATH 005A The Principles of Calculus I

Course Description: Lecture, 3 hours; additional lecture, 2 hours. Prerequisite(s): a score of 2 on the AP Calculus AB Exam or a sufficiently high score on the Mathematics Advisory Examination, as determined by the Mathematics Department. A study of inequalities, absolute value, functions, graphing, logarithms, trigonometry, roots of polynomials, counting, vectors, and other elementary concepts of mathematics. Some sections may be offered online. Credit is awarded for one of the following MATH 005A, MATH 004, MATH 006A, or MATH 006B.

[Math Department course syllabus for Math 5A](#)

Frequently Asked Questions about the Mathematics Advisory Exam Results

1. **What does my MAE placement mean?**

In general, students who receive a placement of "Math 5A" will enroll in MATH 005A, The Principles of Calculus I, as their first college mathematics course. Upon completion of Math 5A, your major will determine the next appropriate course for your enrollment. You will continue taking courses until you have completed the mathematics requirements for your major.

2. **What if I don't feel confident enough to begin with Math 5A?**

If you do not feel you are ready to enroll in Precalculus and would rather review Algebra topics prior to enrolling in Math 5A, please talk with your academic advisor. Your advisor will help you find the course that is most appropriate.

3. **What can I do if I still have questions?**

Please find advising information for your college or major at:

[College of Natural and Agricultural Sciences, CNAS](#)

[Bourns College of Engineering, BCOE](#)

[College of Humanities, Arts, and Social Sciences, CHASS](#)

[School of Education](#)

[School of Public Policy](#)

[School of Business](#)

4. **What if I change my major?**

If you change your major, the Math course(s) you need to take may change. Please go to the MAE website at <https://arc.ucr.edu/mae> and select "Placement Adjustment Process" from the menu on the left.