

What math class should I take if I scored below the calculus cut off?

Does your major at UC Davis require calculus?

YES

NO

What class did you take last year?

Calculus or
Precalculus with
an A or B

Calculus or
Precalculus with
a C or lower

No math or
other math
(Stats doesn't count)

Do you need to take statistics? Your high school classes probably prepared you for introductory stats. AATC has support for different stats classes when you enroll in stats.

Do you already know how to do MOST or ALL of these things?

Concept	Examples
Solve linear equations and inequalities	Solve $2x - 7 = \frac{1}{3}x$ $5(x - 4) > 2x - 1$
Solve quadratic equations	Solve $(x - 2)(x + 3) = 0$ $x^2 + 4x = 5$
Graph lines	Sketch $y = -3x + 8$ $2x + 6y = 12$
Simplify expressions with exponents	Simplify $25^{\frac{1}{2}}$ $(x^3 y^{-2})^5$

YES

What score did you get on the UC Davis Math placement Exam (MPE)?

Below
18

18 to 24
or above 24 and
need MAT16 or 17

25 or higher
and need to
take MAT21

Take **Pre16** (WLD910)
workload precalculus

NO

Concept	Examples
Simplify expressions with fractions	Simplify: $\frac{1}{1 - x^{-1}}$
Solve basic trig equations	Solve: $\sin x = \frac{1}{2}$
Solve nonlinear inequalities	Solve $(x - 2)^3(x + 1)^2 < 0$
Find the domain of a function	$f(x) = \frac{1}{\sqrt{16 - x^2}}$
Graph trig functions	Sketch $y = 2 \sin x - 1$ $y = \cos(x - \frac{\pi}{3})$
Manipulate and solve logarithmic equations	Solve $\ln(x + 1) = 5$ Simplify $\log 4 + 2 \log 5 =$

Do you already know how to do MOST of these things (with a quick review)?

NO

YES

Take **MAT12** with
Pre21 (WLD920)

You may want to retake the math placement exam after a little review. You are probably ready for calculus with some extra support from a co-math class.

An algebra review class like MATD might be a better fit than precalculus. If any of the words in the box above sound unfamiliar, then MATB (beginning algebra) is probably the best choice.

MATD and WLD55M are both algebra review courses that give 3 workload units and have P/NP grading; *neither covers trigonometry*. Pre16 and Pre21 both cover precalculus topics needed for calculus as well as trigonometry. All of these courses will help students prepare to retake the MPE.