



## ADVANCED MATHEMATICS PROGRAM

Fairmont Preparatory Academy's advanced mathematics program is among the best in the nation. The program has been repeatedly recognized by the College Board and continues to receive acclaim. We offer each student excellent opportunities to progress and excel on national exams and in courses rarely offered at the high school level. Three of our teachers are university professors, allowing our student the chance to earn up to 22 units of university credit without leaving Fairmont Prep, and moving well beyond what is offered by AP, IB or most other high school programs.

The tremendous success Fairmont has had in math, science, and technology has been recognized by the Siemens Corporation and College Board's AP program as one of the top math, science, and technology schools in California: *"Using data from the College Board's AP Report to the Nation, your high school has one of the highest success rates in your state in math, science, and technology subjects."* -2009.

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- The College Board has repeatedly recognized Fairmont Prep as having one of the top AP Calculus programs in California.
- Students can earn up to 22 college units (6 semester classes); awarded by Cal State Fullerton. This credit is transferable to most universities.
- Fairmont offers courses in Multivariable Calculus, Differential Equations and Linear Algebra 1 and 2, and Mathematical Structures/Discrete Math 1 and 2, courses typically only offered at colleges.
- In 2011-2012, Fairmont has 200 students enrolled in AP math classes and another 44 enrolled in Multivariable Calculus or Differential Equations/Linear Algebra. In 2010-2011, Fairmont students passed 156 AP math exams and another 30 students were enrolled in Multivariable Calculus, Differential Equations/Linear Algebra, and Differential Equations/Linear Algebra 2.

## QUICK FACTS ABOUT THE ADVANCED MATH PROGRAM

- College Board recognitions:
  - 2005, Fairmont Prep was recognized for having one of the top AP Calculus programs in the world
  - 2008, Fairmont Prep was recognized for having one of the top AP Calculus program in the California
  - 2009, Fairmont was recognized for having one of the best math, science, and technology programs in California
- In 2009, Fairmont Calculus teacher Sam Calavitta was recognized as the top AP Calculus teacher in California
- Over the last 6 years, Fairmont's pass rate on the AP Calculus BC exam is 99% and the average score is 4.73
- Fairmont's average SAT math score over the last two years is 664
- Over half the Fairmont math faculty possess a Masters degree and all have taught AP, IB, or both
- Three university professors teach Fairmont Prep math classes that allow students to receive transferable credit for a university class (appearing on a university transcript)
- Fairmont students taking the following classes can earn direct credit from CSUF:
  - AP Calculus AB - 4 units
  - AP Calculus BC - 4 units
  - AP Calculus AB/BC - 8 units
  - Multivariable Calculus - 4 units
  - Differential Equations and Linear Algebra - 4 units
  - Mathematical Structures/Discrete Math 1 - 3 units
  - Mathematical Structures/Discrete Math 2 - 3 units
- We have an Engineering Magnet Program designed to prepare students for the top university engineering programs in the nation. We combine our advanced math courses with six engineering courses that are available at very few high schools in the country. Our program includes internships, guest speakers, and field trips to give students a comprehensive exposure to the world of engineering

## RECENT TRENDS IN STUDENTS PASSING AP MATH TESTS AND ENROLLMENT IN ADVANCED MATH CLASSES

YEAR	STATS	CALCULUS AB	CALCULUS BC	BEYOND CALCULUS*	TOTAL PASSING AP EXAMS & BEYOND	NUMBER OF STUDENTS ON CAMPUS	% OF STUDENTS PASSING AP EXAMS & BEYOND
2009	2	114	27	20	163	518	31.5%
2010	6	47	62	12	121	451	26.8%
2011	33	62	61	30	186	479	38.8%
2012**	52	72	76	43	243	556	43.7%

\*Beyond Calculus includes students in Multivariable Calculus, Differential Equations and Linear Algebra, and Mathematical Structure/Discrete Math 1 & 2

\*\*Students enrolled in the 2011/2012 academic year

