



# California Academy of Mathematics and Science

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## CAMS PROGRAM DESCRIPTION

The California Academy of Mathematics and Science (CAMS) is a comprehensive four-year high school located on the campus of California State University, Dominguez Hills (CSUDH). CAMS mission is to increase the nation's pool of college graduates in the fields of science, math, engineering, and technology (STEM) by offering an intensive college-preparatory education to motivated high school students. It serves a diverse student body of 679 students, who earn transferable university credit in grades 11 and 12 by taking college courses through CSUDH. Upon graduation, CAMS students have completed an average of 22 units of university credit. The required CAMS curriculum far exceeds the University of

California admission requirements, and nearly all students go on to four-year universities immediately following high school graduation. CAMS offers an excellent education for high school students considering careers in STEM fields.

Interested students apply to CAMS through their middle school only during grade eight. Students submit the Application for High School / Secondary Specialized Programs as well as the CAMS Supplemental Application, which can be obtained from their middle school counselor or from the CAMS website. Transcripts, essays, and teacher recommendations are part of the application requirements.

## PROGRAM HIGHLIGHTS

- Engineering and Biotechnology Pathways
- Located on a university campus, CAMS juniors and seniors take university classes as part of their elective program.
- Small student body allows more teacher-student interaction.
- Students gain experience with real-world problem solving that stresses collaboration and interdisciplinary projects.
- Successful and active internship programs are in place.
- School culture strongly supports students in obtaining college admissions. College admission staff actively recruits CAMS students. More than 60 colleges and universities provide CAMS with recruitment site visits each year.

### Core Curriculum for the Class of 2020

Grade	Math	STEM Focus	English	Social Science	Foreign Language
9	Geometry	Accelerated Biology <i>and</i> Engineering Design (*PLTW)	Accelerated English	Computer Science	First year—required
10	Int. Algebra	Physics <i>and</i> Principles of Engineering (*PLTW)	Accelerated English	Accelerated Modern World History	Second year—required
11	Pre-Calculus	Honors Chemistry <i>and</i> Biotechnology 1-2	Honors English	AP U.S. History	Third year—recommended
12	AP Calculus	Ap Physics <i>or</i> University Physics or STEM Elective	AP English Literature	U.S. Government and Economics	Fourth year—recommended

\*Project Lead the Way

## REQUIREMENTS FOR CONSIDERATION

- ✓ Student **MUST** reside in the CAMS attendance area
- ✓ 3.0 cumulative academic GPA for grades 6-8
- ✓ B's or above in all math and science courses
- ✓ Score at the Met or Exceeded level on California State Standards Test (SBAC)
- ✓ Completion of Algebra I, or Algebra 1/2 or Algebra C/D