



# GARCES MEMORIAL HIGH SCHOOL

*Developing students spiritually, academically, and socially since 1947*

## Garces Pathways Program Intent to Participate in the Engineering Pathway *Program Overview*

Many of our students enter high school with a career goal and/or aspiration to pursue a desired course of study in a particular field. While our college –prep curriculum provides the traditional academic track; we have recently designated learning pathways in Engineering, Engineering, and Agriculture to meet the needs of our students. Pathways are programs of high school study that connect learning in the classroom with real-world applications outside of school. They integrate rigorous academic instruction with a demanding technical curriculum and field-based learning. Growing evidence shows that pathways hold promise for increasing academic achievement and learning, and increasing students’ earning power when they graduate.

Our goal is to connect learning experiences and opportunities across subjects, establish internships within the community, provide fieldtrips that enrich concepts learned in the classroom, expose students to lectures and guest speakers by physicians, entrepreneurs, professors, and community leaders to provide a view of the career interest outside the realm of the classroom and connect what students are taught in school to real-world issues.

Freshman year students in the Pathways Program will be introduced and exposed to various careers through guest speakers, and classroom application regarding the fundamental content within the selected Pathway. Students in their sophomore and junior year will engage with speakers whose topics intertwine with the pathway’s curriculum and begin to apply their gained knowledge in and out of the classroom through various means of projects, fieldtrips, and presentations. At the end of the student’s junior year, they will meet with an assigned mentor, and interview with professionals to begin their school year long based internship. This will be the culminating step for the completion of the Engineering Pathway.

Students who are interested in joining one of the Pathways must apply through the application process indicated on the reserve of this letter. Students accepted into the Pathways program will be enrolled in a core curriculum of college prep, honors and advanced placement courses which meet the University of California and California State College requirements and serve as the common foundation for the program.

### Engineering Pathway Recommended Course of Study

Subject Area	9th Grade	10th Grade	11th Grade	12th Grade
English- 4 years	English 9	English 10	English 11	English 12
Theology- 4 years	Theology 9	Theology 10	Theology 11	Theology 12
Math- 3 years (4 rec.)	<b>Geometry</b>	<b>Algebra II</b>	<b>Math Analysis</b>	<b>Math Analysis /Calculus/Statistics</b>
Science- 3 years required ( 4 rec)	<b>Physics</b>	<b>Chemistry</b>	<b>Biology</b>	<b>Physics 12 Honors</b>
Foreign Language - 2 years (3 rec.)	Span/French	Span/French		
World History- 1 year		World Hist.		
U.S. History- 1 year			U.S. History	
American Government - 1 semester				Government
Economics- 1 semester				Economics
Physical Education- 2 years	PE 9	PE		
Computer Ed- 1 semester*	Comp Apps*			
Health- 1 semester*	Health*			
Visual/Performing Art			Art/Band/Film/Dance	
<b>Electives</b> (see options below in Notes)	<b>Introduction to Design</b>	<b>Principles of Engineering</b>	<b>Civil Engineering &amp; Architecture</b>	<b>Digital Electronics Engineering Internship</b>

**Notes: Courses in BOLD are required for the Engineering Pathway**

Must complete: 4 years of PTLW, 4 years of math, 4 science classes (including: Physics 12 H), plus 1 year of an Engineering Internship

\***Health & Computers will need to be taken during Summer School.**

**Please keep this page for reference.**



# GARCES MEMORIAL HIGH SCHOOL

*Developing students spiritually, academically, and socially since 1947*

## Garces Pathways Program Intent to Participate in the Engineering Pathway *Requirements & Application*

Requirements for enrolling in the program are:

1. Students entering the Pathways program will be interviewed to address interest and intent to participate.
2. Students must maintain a 3.5 cumulative GPA to participate **and** remain in the program.
3. Behavioral citations will exclude the student from the program.
4. Student must commit to the Pathways program no later than semester 2 of their freshmen year.
5. Student must take health & computers during the summer to open a spot in their schedule for Introduction Design (freshman year).
6. Student must be enrolled in Geometry their Freshman year.

### *Intent to Participate in the Engineering Pathway*

Student Name (please print): \_\_\_\_\_ Grade (2018-2019): \_\_\_\_\_

Explain why you are interested in participating in the Engineering Garces Pathway?

---

---

---

What are your plans and/or career goals once you graduate from Garces?

---

---

---

*I acknowledge that by signing this form I will accept and adhere to the requirements for the Engineering Pathway program.*

Student Signature: \_\_\_\_\_ Date \_\_\_\_\_

Parent Signature: \_\_\_\_\_ Date \_\_\_\_\_

**Please submit this form to your School Counselor.**

9<sup>th</sup> Grade- Mrs. Poochigian || 10<sup>th</sup>-12<sup>th</sup> Last Names A-L- Mrs. Limi || 10<sup>th</sup>-12<sup>th</sup> Last Names M-Z- Mrs. Restivo