Cathedral Catholic High School’s Pre-Engineering Program is designed to provide students with the skills needed to succeed in future Science, Technology, Engineering, and Mathematics Programs. It includes specialized courses in addition to high level core courses. Upon graduation, students who have completed the 12 required courses will receive a “Graduated with a Distinction in Engineering” recognition on their transcript.

**What the Program Offers**

- Educational and exciting off-campus industry tours
- Local, state, and national science and technology activities – Robotic competitions, workshops, seminars, and events
- Industry – workplace experiences
- Daily use and all-access to the re-modeled and expanding Pre-Engineering and Robotics facility
  - CNC milling machine
  - CNC plasma cutting table
  - Desktop computers
  - 3D printing
  - CAD/CAM software
- Preparation for the challenges of college level engineering and science programs, while developing students’ time-management and scientific analytical thinking skills, along with problem-solving techniques and technical knowledge.

**Who can participate?**

Students who enjoy...

- Hands-on laboratory projects & assignments
- Innovative and creative thinking
- Collaborative team and group problem solving
- Innovative instruction
- Pursuing a science or engineering degree

**Required classes to complete the Pre-Engineering Program:**

- AP Chem or AP Bio
- AP Physics 1 (or higher level)
- AP Calc AB (or higher level)
- Intro to STEAM
- Advanced STEAM
- Engineering Design
- AP Computer Science A
- 4th Year Capstone Class

For more information, please contact:
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