



Mission Valley ROP  
CAREER TECHNICAL TRAINING CENTER  
5019 Stevenson Blvd · Fremont, CA 94538-2449  
(510) 657-1865 · Fax (510) 438-0378 · www.mvrop.org

Honor Cord Application for Principles of Engineering

Student Name: \_\_\_\_\_

Graduation Date: \_\_\_\_\_ Home School: Irvington

ROP Course/Program: Principles of Engineering

ROP Instructor: Kristin Berbawy

Course Grade: \_\_\_\_\_ (must be an "A") Attendance: \_\_\_\_\_ (must be at least 95%)

Industry Sector Standards:

- Knowledge of industry standard Design Process
- Demonstrate an ability to identify, formulate, and solve engineering problems
- Demonstrate an ability to design and conduct experiments, as well as to analyze and interpret data.
- Identify nonrenewable, renewable, and inexhaustible energy sources and describe the process related to harnessing, storing, transporting, and converting energy.
- Describe the relationship of component forces to a resultant force calculate their values.
- Determine the centroid of shapes.
- Determine translational and rotational forces acting on an object.
- To create control system operating programs that utilize computer software given needs and constraints.
- Apply an engineering design process to the creation of a material sorter design.
- To apply a decision matrix in a design process to best defend a selection or choice in a design process.
- To apply professional skills and work within a design team.

Students must submit a **letter of recommendation** from any faculty member or business partner member. Attach the letter of recommendation to this application.

The completed application and supporting documents must be submitted to your instructor **by May 10th**.

Honor-Cord recipients will receive one honor cord with an honors certificate.

Any **replacement** honor cord will cost **\$5.00** to be paid for by the student.

Instructor Approval \_\_\_\_\_ Date: \_\_\_\_\_