

# 2020 Instructional Program Reviews



## CAN Program Review (Instructional) - Engineering (Fall 2021)

### STEP 1: Annual Updates

#### 2020-2021

- 1. Changes & Updates:** Converted several engineering classes for online offering.
  - 2. Progress Reports:** Achieved goal of offering online ENGR classes.
  - 3. Rationale for New Goals:** To improve laboratory infrastructure to enhance student equity and success
- Annual Update Status:** Complete

### Goal Description: Develop a three-year SLO assessment plan

Develop a three-year SLO assessment plan, in coordination with division dean and adjunct faculty in the department.

**Goal Status:** 1 - New (PR)

**Relevant Program Review Cycle:** 2019-2020

**Estimated Start Date:** 11/16/2018

**Estimated Completion Date:** 12/14/2018

**Please select the college goals with which your program goal aligns.:** Organizational Development - Focus institutional resources on the structures processes and practices that invest in a diverse student population and prioritize and promote equitable inclusive and transformative learning.

#### Action Plans

**2018-2019** - Develop a three-year SLO assessment plan, based on course offering patterns. (Active)

**Who's Responsible for Completing this Action Plan?:** Adam Windham

**Estimated Completion Date:** 12/14/2018

### Goal Description: To update laboratory resources for engineering classes

The objective here is to build on the hiring of a full-time engineering instructor by implementing a longer-term vision for engineering based on strengthening student learning outcomes and increasing student access and success. SLOs in several engineering classes require hands-on experimental activity, including performing experiments, making measurements and analyzing data. In this resource request, the instructor plans to upgrade the hands-on offering to students by providing modern and state-of-art laboratory equipment.

**Goal Status:** 2 - Continuing (PR)

**Relevant Program Review Cycle:** 2020-2021

**Estimated Start Date:** 06/15/2020

**Estimated Completion Date:** 08/31/2021

**Who's Responsible for this Goal?:** Engineering Instructor

**Please select the college goals with which your program goal aligns.:** Student Completion/Success - Provide educational and student services programs that highlight inclusivity, diversity, and equity in their mission to help students meet their unique educational goals and minimize logistical and financial barriers to success.

# CAN Program Review (Instructional) - Engineering (Fall 2021)

## Action Plans

**2020-2021** - To acquire necessary laboratory resources and integrate them into the various engineering classes. (Active)

**Who's Responsible for Completing this Action Plan?:** Engineering Professor

**Estimated Completion Date:** 08/30/2020

**Related Documents & Links:**

[LabResources-ENGR-2021.xlsx](#)

## Resource Requests

**Laboratory Supplies** - Many conventional hands-on activities for the introduction to engineering class are currently not in place. This makes it very difficult to achieve student learning objectives related to hands-on learning, such as performing experiments, making measurements and analyzing data. This resource request will put in place sufficient resources to provide every student in the Intro to ENGR class an opportunity to participate a several different hands-on activities.

**Status:** New Request - Active

**Type of Resource:** Equipment (Items Over \$5000)

**Cost:** 11785

**One-Time or Recurring Cost?:** One-Time Cost

**Critical Question: How does this resource request support closing the equity gap?:** Access to such resources will ensure that student who have not had prior access or experience with working with laboratory resources, for instance, due to differences in high school resources available, will now be able attain equity in essential engineering and STEM hands-on laboratory work.

**Critical Question: How does this resource request support Latinx and AANAPISI students?:** ENGR classes have significant fraction of students coming from the Latinx and AANAPISI communities and access to requested resource will enhance their long term success in engineering and/or STEM fields.

## Goal Description: To build laboratory facilities for engineering classes as well as ancillary programs related to engineering such as the engineering club

The objective here is to build on the hiring of a full-time engineering instructor by implementing a longer-term vision for engineering based on strengthening student learning outcomes and increasing campus-wide student access and success. SLOs in several engineering classes require hands-on experimental activity, including performing experiments, making measurements and analyzing data. Many students, (including non-engineering majors) across the Cañada campus also desire access to engineering resources, such as additive manufacturing and 3D printing (example through the engineering club). In this resource request, the instructor plans to upgrade the hands-on offering to students by providing modern and state-of-art laboratory equipment and also obtain the necessary space to be able to provide students a safe and functional location to be able to access activities like 3D printing.

**Goal Status:** 1 - New (PR)

**Relevant Program Review Cycle:** 2020-2021

**Estimated Start Date:** 06/15/2020

**Estimated Completion Date:** 08/31/2021

**Who's Responsible for this Goal?:** Engineering Instructor

**Please select the college goals with which your program goal aligns.:** Student Completion/Success - Provide educational and student services programs that highlight inclusivity, diversity, and equity in their mission to help students meet their unique educational goals and minimize logistical and financial barriers to success.

**Please select the college strategic initiatives with which your program goal aligns.:** Improve Student Completion

## Action Plans

**2020-2021** - To work with facilities to identify location and necessary infrastructure so as to improve access to safe and accessible laboratory space and infrastructure (Active)

# CAN Program Review (Instructional) - Engineering (Fall 2021)

**Who's Responsible for Completing this Action Plan?:** Engineering Professor working with facilities

**Estimated Completion Date:** 08/31/2020

**Related Documents & Links:**

[FacilitiesRequests-ENGR-2021.xlsx](#)

## *Resource Requests*

**Facilities requests, including, fume hood and eye wash station** - In order to provide safe usable laboratory space to perform engineering experiments

**Status:** Continued Request - Active

**Type of Resource:** Facilities

**Cost:** 25000

**One-Time or Recurring Cost?:** One-Time Cost