

Annual Program Review Report

Annual Program Review Goal Reporting - Engineering

Program Goal: 1

Continue to assess SLO's and improve course delivery based upon results. (pgs. 25-26)

Goal Type: Assessment Goal

Start Date: 07/01/2015

Goal Priority: 0 = State mandated and required by accreditation, licensing or regulatory requirement

Estimated cost/resources needed: No additional costs

Outcome for Goal

PR Goal Outcome

Reporting Period: 2015 - 2016

09/21/2016

Status of Goal: In Progress

The SLO's for ENGR 4, 4L, and 8 were assessed during the 2015-2016 year, as per the assessment schedule.

Map to Strategic Plan

Annual Program Review Goal Reporting - Engineering

3.2 Improve courses and programs through the analysis of multiple measures for basic skills courses, transfer level courses, career technical education and distance education. (DO 3.3) - Analyzed course success as part of regular SLO assessments

Program Goal: 2

Along with ongoing articulation of ENGR courses, obtain acceptance of RC courses for C-ID descriptors and create an engineering transfer degree. -- (pg. 27)

Goal Type: Curriculum/Pedagogical Goal

Start Date: 07/01/2015

Goal Priority: 1 = Essential to the operation of the program or health and safety

Estimated cost/resources needed: No additional costs

Outcome for Goal

PR Goal Outcome

Reporting Period: 2015 - 2016

09/21/2016

Status of Goal: In Progress

C-ID acceptance of courses is bogged down at a state level. RC engineering instructor was trained as a C-ID course reviewer to help with backlog.

Map to Strategic Plan

Annual Program Review Goal Reporting - Engineering

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1.2 Offer instructional programs that provide basic skills, transfer preparation, and career technical education. - ENGR courses were submitted for C-ID approval.

The engineering model curriculum was finalized and posted on the C-ID site. This curriculum will help guide RC review its engineering curriculum.

Program Goal: 3

Continue support for course software such as SolidWorks (ENGR 2) and Borland C++ (ENGR 40) -- (pgs. 4, 7)

Goal Type: Technology Goal

Start Date: 07/01/2015

Goal Priority: 1 = Essential to the operation of the program or health and safety

Estimated cost/resources needed: Approximately \$2500 per year (SolidWorks renewal shared with manufacturing)

Outcome for Goal

PR Goal Outcome

Reporting Period: 2015 - 2016

09/21/2016

Status of Goal: In Progress

Software maintenance agreement has been maintained for several years. This is very good for students as they can use the up-to-date version of the software.

Map to Strategic Plan

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The engineering model curriculum was finalized and posted on the C-ID site. This curriculum will help guide RC review its engineering curriculum.

5.6 Utilize, improve and maintain technology and facility infrastructure to support academic success. (DO 6.2, 6.3) - New lab equipment purchased for use in ENGR 4L materials lab course.

Program Goal: 4

Support for purchase of equipment and supplies necessary for engineering courses (elect s supplies for ENGR 6, project supplies for ENGR 10, materials lab supplies for ENGR 4L) -- (pgs. 4, 17, 23, 28)

Goal Type: Supply Goal

Start Date: 07/01/2015

Goal Priority: 1 = Essential to the operation of the program or health and safety

Estimated cost/resources needed: Approx \$6000/year

Outcome for Goal

PR Goal Outcome

Reporting Period: 2015 - 2016

09/21/2016

Status of Goal: In Progress

STEM grant funding was used to purchase new lab equipment for ENGR 4L. This lab equipment will expand the topics that can be covered in the lab.

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Program Goal: 5

Continue offering distance education options for ENGR courses and improve support services for these students.

Goal Type: Distance Education Goal (curricular or student services)

Start Date: 07/01/2015

Goal Priority: 2 = Important, but not essential or required

Estimated cost/resources needed: Continued distance education support from college

Outcome for Goal

PR Goal Outcome

Reporting Period: 2015 - 2016

09/21/2016

Status of Goal: In Progress

ENGR 4 continues to be offered as hybrid course. ENGR 8 was offered again as hybrid course in Spring 2016, but the student success was very poor. It will be offered face-to-face in the future.

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Program Goal: 6

Continue to promote engineering through the STEM Ambassador program and continue funding of this program to provide it with adequate demonstration supplies. (pgs. 8-15, 23, 27, 30-31)

Goal Type: Supply Goal

Start Date: 07/01/2015

Goal Priority: 2 = Important, but not essential or required

Estimated cost/resources needed: Supplies at approx. \$2000/year

Outcome for Goal

PR Goal Outcome

Reporting Period: 2015 - 2016

09/21/2016

Status of Goal: In Progress

STEM Ambassador program continued with outreach efforts during 2015-2016, including popular SciFri and Introduce a Girl to Engineering Days.

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Map to Strategic Plan

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Program Goal: 7

Expand access to engineering program courses, including math and physics, in order to increase engineering enrollments. (pg. 17-18, 29-31)

Goal Type: Scheduling Goal (FTES/SQ.FT. data needed for reports)

Start Date: 07/01/2015

Goal Priority: 1 = Essential to the operation of the program or health and safety

Estimated cost/resources needed: Cost of offering courses

Outcome for Goal

PR Goal Outcome

Reporting Period: 2015 - 2016

09/21/2016

Status of Goal: In Progress

New physics instructor hired for Fall 2016. This additional faculty will improve students' access to physics courses which are a key pipeline for engineering courses.

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