

## CAPR 5 Year Review Report for Computer Engineering

The Computer Engineering Program was visited by ABET on October 2015, and received accreditation until September 30, 2022. This is the first time the program has received ABET accreditation, and is a testament to the growth and progress of the young program. The following is the final ABET report:



“Engineering Accreditation Commission Summary of Accreditation Actions  
for the  
2015-2016 Accreditation Cycle

8/12/2016

California State University, East  
Bay Hayward, CA

### Computer Engineering (BS) (B.S.)

Accredit to September 30, 2022. A request to ABET by January 31, 2021 will be required to initiate a reaccreditation evaluation visit. In preparation for the visit, a Self-Study Report must be submitted to ABET by July 01, 2021. The reaccreditation evaluation will be a comprehensive general review.

This is a newly accredited program. Please note that this accreditation action extends retroactively from October 01, 2013.

#### 1. Development Plan

The program evaluators indicated one concern about the program that we have to resolve before the next accreditation cycle:

#### “Program Concern

1. Criterion 6. Faculty This criterion requires the program to demonstrate that the faculty members are of sufficient number and they have the competencies to cover all of the curricular areas of the program. It further states that there must be sufficient faculty to accommodate adequate levels of student-faculty interaction, student advising and counseling, university service activities, professional development, and interactions with industrial and professional practitioners, as well as employers of students. Student enrollment in the program has grown rapidly in recent years, increasing from 19 to 58 to 102 students over three years. The local demand by industry for computer engineers

and the limited access to other computer engineering programs in the region are expected to foster continued growth. Although present levels of student-faculty interaction are adequate, maintaining this with increasing numbers of students will put pressure on faculty time available for the range of activities mentioned in this criterion. Therefore, future compliance with this criterion may be

jeopardized.

- 30-day due process response: The program did not provide a response to this shortcoming.
- The concern remains unresolved.”

#### 5-Year Plan:

1. Summary of program changes: The main change will be the transfer to a semesters-based program. The Computer Engineering curriculum has been transformed in such a way that it satisfies the accreditation requirements, and will produce technically stronger graduates. This has been accomplished by fundamental changes to courses, teaching methods and course requirements. A new faculty, Dr. James Tandon, has joined the program in Fall 2015.
2. Faculty: As mentioned in the ABET review above, we have to address their concern before the next visit.
3. Research: The Computer Engineering faculty are active in research and are being successful in securing funds for their research. Growth in research is a goal that the engineering faculty are aggressively pursuing.
4. Laboratory Development: Engineering is being allocated space for faculty research and teaching. The space is going to be utilized for the development of an electronics laboratory, which will contain high-speed RF equipment that will allow students to complete state-of-the-art circuits. Two computer engineering faculty and a construction management faculty will be using this lab to conduct research and support their classes.
5. Equipment: Through A2E2 annual funding and other College of Science resources, we will purchase lab equipment that will partially be used to equip this space.
6. Growth: Computer Engineering program is the fastest growing undergraduate program in Engineering. We anticipate that the growth will continue and make it viable to start offering a graduate program in computer engineering.

Excess credits: The program requires 191 credit hours to complete. The exemption for Engineering has been approved by the University and allowed by the Chancellor's Office. We have kept the program requirements at the minimum level needed for accreditation.