Options: software engineering, networking

components to five of our courses for semesters and fear that this shortage will be a dire problem in the future. We were lucky enough to hire Brian Campbell as our technician who currently splits his time between the computer science department and IT. Moving forward, we would eventually like to have this

Faculty:

Retiring faculty continues to be an issue. Dr. Reiter and Dr. Jurca completed their FERP this year. Dr Yu is in his last year of FERP. The department currently functions with eleven tenure track faculty. Our SFR is currently 32 with a target of 30. The department's search for two new faculty members in 2016-17 resulted in the hire of one professor, Dr. Zahra Derakhshandeh. Her expertise is in Distributed Computing, Algorithm Design and Optimization, Bio-inspired Algorithms, and Programmable Matter will be an asset to the department. Our search in 2018-2019 was unsuccessful. Potential candidates reported that they were deterred from accepting our position due to the cost of living in the Bay area and CSUEB's compensation. We will again search for two new faculty members next year as the department is under staffed and relies on lecturers for many course sections.

Staff:

We are currently functioning with department administrative assistant, Stephanie Wiley, Student Services Coordinator, Janet Synder, and student workers who all help to serve the 1200 undergraduate and graduate computer science students.

The computer science has long functioned with a dedicated lab technician to support out class room labs and faculty software needs. Our technician issues student accounts, manages dedicated servers that support web, security, and database courses, and manages virtual operating system environments. We were lucky enough to hire Brian Campbell as our technician who currently splits his time between the computer science department and IT. Moving forward, we would like to have this position transition to support computer science department full uat cce urs43l83.4 (u)-0.7 (n)-0.8 (c)-4.9 iac (t)-6 (u)-0.7a4 (u)-0.7 (-4.9 (i)7.6 (e)

number of courses required by all majors, and increasing the number of programming languages to which students are exposed. Required courses now include: CS 401 Software Engineering, CS 311 Programming Languages, CS 211 Computer Organization and Assembly Language, CS 321 Architecture, CS 441 Computer Networks, and CS 231 Computers and Social Responsibility. Courses are grouped in the

D. **Summary of Assessment Results**

Summarize your assessment results briefly using the following sub-headings.

This year we are assessing

Apply knowledge of mathematics and computational theory to analyze problems in computer science, and identify and define the resources and requirements needed for their solution.

Perform successfully on teams to accomplish a common goal, and communicate effectively in written and oral form.

This PLO was assessed in CS 411 Automata and Computation (PLO 1 - Convert a problem to an equivalent formal representation), CS 401 Software Engineering (PLO 6 - Develop teamwork skills using current SW Management and Production tools)

Main Findings:

PLO 6: CS 401 - Software Engineering - 1 section
Questions 6-10, 60%

PLO 1: CS 411 - Automata and Computation - 1 section
All questions, 47%

Recommendations for Program Improvement: *(changes in course content, course sequence, student advising)*

Course content will be somewhat adjusted under semester conversion, however, we are not seeing content as an issue in these cntdh925 0 Td( )Tj-Dntdh925 0 Td( )T (t)-3 .eroee c

Other Reflections:

Currently, we do not have standardized assessments so consistency and validation is an issue. In addition, new lecturers are not always aware of the assessments and do not give them. We have created a standard repository for the assessment quizzes for easier deployment in the future. We also plan to add this procedure to a lecturer handbook that is currently under development.

E. **Assessment Plans for Next Year**

Summarize your assessment plans for the next year, including the PLO(s) you plan to assess, any revisions to the program assessment plan presented in your last five-year plan self-study, and any other relevant information.

Next year we will assess PLO 5.

III. **DISCUSSION OF PROGRAM DATA & RESOURCE REQUESTS**

Each program should provide a one-page discussion of the program data available through CAPR. This discussion should include an analysis of trends and areas of concern. Programs should also include in this discussion requests for additional resources including space and tenure-track hires. Resource reS(i)-6 (r)-5 (e(s)-1 h)-4 (i)-(l)-2 (eb1 (w (i)-(l)-2 4 (ill)-11.3 (as)9.5 (s)-1.3 s)-ā5 (e

We will continue to have problems in the future to find lecturers and/or tenure track faculty with PhDs and teaching experience if we are not able to offer suitable compensation to match market demand for computer science and the high cost of living in the bay area. We run the largest MS program in COS with 270 international students, which brings ~3 million dollars to the university annually. For ABET and for our department, the majority of undergrad CS courses should be taught by regular faculty with PhD degrees. All the MS CS courses must be taught by PhD