AACR 3

Office of the President
March 9, 2005

Members, Board of Trustees:

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

Recommendation: that the Board of Trustees approve the establishment of a Bachelor of Science in Computer Engineering degree program in the College of Engineering, effective in the spring 2005 semester.

Background: Computer engineering involves the design, operation, and analysis of computer systems, which include both hardware and software components. Careers in computer engineering focus on the development of independent computer systems and embedded computer systems found in consumer products such as medical devices, automobiles, aircraft, trains, telecommunications systems, and other information systems. According to the Bureau of Labor Statistics, Computer Engineering is one of the fastest growing occupations.

The primary goal of the undergraduate computer engineering degree program is to provide a solid education in the fundamentals of both the hardware and software aspects of computer systems along with their applications, including embedded systems. Graduates of this program are prepared either to enter into professional practice or to continue with advanced education in a suitable graduate degree program. The program provides students with technical qualifications necessary to solve the engineering problems of tomorrow, which include skills related to problem solving, teamwork, and communication. In addition, the program raises student awareness of the social and ethical issues related to technology and stresses the need for continuous education throughout their careers.

This program has the approval of the Undergraduate Council and Senate Council and has completed the 45-day review by the Council on Postsecondary Education. The Provost of the university supports this recommendation.

Action taken: ☑ Approved   ❑ Disapproved   ❑ Other _____