

in many research-sponsored programs. The master's degree program is cost-effective, is supportive of the B.S. and Ph.D. programs, and will continue to be a viable option for many students.

The Department of Civil Engineering responsibilities are addressed through an array of undergraduate and graduate degree programs, research and creative activities, and outreach and public service programs. Specifically, the department provides excellence in classroom instruction and an educational environment that prepares students for professional careers in civil engineering, and advancements in civil infrastructure development and preservation. All BOR program review guidelines are met in the department.

Because the knowledge and technologies for computing and information systems are essential for workers in every discipline of society, the Department of Computing and Information Sciences provide an essential piece to the University mission. The department supports a significant number of service course credit hours to other engineering and non-engineering students. This service load continues to challenge the optimization of resources, including faculty, staff, and laboratory equipment. All BOR program review standards are fulfilled except the undergraduate degree production in the information systems program. The disparity between the number of junior and senior majors and the number of graduates in the information systems program is because many transfer students who come into the program with enough credits to be categorized as an upper classman will take at least 3 years to finish because they don't have the required computer science background. Overall, the department is very cost-effective.

All degree programs in the Department of Electrical and Computer Engineering stress the theory and practical aspects of the disciplines, such that the students can become technically competent, problem-solving employees for computer and electronics industries. All BOR program review standards are fulfilled except for the Ph.D. degree production in the electrical engineering program. This is partially a result of the booming economy of the late 1990's, which employed many of the students before they finished their dissertations. This impact was minimized at the masters' level by aggressive recruiting of K-State graduates and graduates of the science programs wishing to pursue an engineering graduate degree. The department has pursued the effort to increase enrollment by providing better support for Ph.D. students and actively recruiting students with fellowships.

The Department of Industrial and Manufacturing Engineering offers a total of six degrees: B.S. degrees in industrial engineering and manufacturing systems engineering, M.S. degrees in industrial engineering and operation research, a master's of engineering management degree, and a Ph.D. degree in industrial engineering. It should be noted that the Operations Research and Manufacturing Systems Engineering programs are service support programs with an interdisciplinary emphasis and are tied to the research efforts and mission of the College. Overall, these programs, by being supportive of each other and also supportive of programs in other departments, are considered to be valuable programs for the College. The master's degree program in engineering management has had few students and no graduates. This master's degree program was approved in 1997 by the BOR and is a distance education program. Consequently, students will usually take 3-4 years to complete the program. To date, 3 students have received degrees in the engineering management program

The Departments of Mechanical Engineering and Nuclear Engineering were merged into one department in 1996. The new department recruits top quality students; establishes and maintains world-class teaching and research facilities; and discovers and disseminates new knowledge and new applications of knowledge. The department houses a TRIGA Mark II pulsing nuclear reactor. All BOR program review standards are fulfilled except the graduate degrees in nuclear engineering.

RECOMMENDATIONS

In this year's review, three masters degree programs are considered distance education. This presented a dilemma in reporting the productivity and cost effectiveness of these programs because headcounts are not included in the 20th day enrollment figures. If a student is enrolled only in distance education courses, then this student is considered non-base and is not included in the base enrollment counts. Also, the time to degree is longer than most conventional masters programs. Table 1 shows the number of students enrolled in the College of Architecture, Planning and Design and College of Engineering distance