

APPENDIX E

Request for Authorization to Establish a Bachelor of Science Degree in Engineering Technology at Elizabeth City State University

Introduction

Elizabeth City State University requests authorization to establish a BS in Engineering Technology (CIP 15.9999) in January 2007.

Program Description

The proposed degree will offer concentrations in “Computer and Information Technology” and “Mechanical and Automation.” Students will complete 43 credit hours in General Education, a 39-hour technical core, 16 hours in related areas, 19 hours in the concentration, and 9 hours of electives. The curriculum includes courses in electronics, electrical systems, network design, network security and management, network and database administration, hardware and software programming, mechanical systems, machine element design, and control and automation. An internship, professional presentations, and a professional electronic portfolio are integral parts of the program. The program will be housed in the Department of Technology, which currently offers BS degrees in Industrial Technology and Aviation Science. The proposed program will incorporate some existing industrial technology and computer courses into the curriculum. The program will apply for accreditation with the Accreditation Board for Engineering and Technology-Technology Accreditation Commission in its third year of operation.

Program Need

There is a need in northeastern NC for programs that support the expansion of business and industry. The proposed BS in Engineering Technology will prepare its graduates with technical knowledge, hands-on experience, and managerial skills necessary to obtain professional careers in design, installation, operation, computer-based applications and automated systems. Graduates will be highly qualified to obtain careers in high-tech industries, government, and business or pursue graduate degrees. The US Bureau of Labor Statistics has projected employment in technical workforce fields to grow by 86% between 2000 and 2010. It is anticipated that the program will enroll 45 full-time and 12 part-time students by its fourth year.

Resources

Dixon Hall, renovated in 2002, has adequate laboratories and classrooms. The Department has 8 state-of-the-art laboratories and has received \$600,000 in the last five years in grants to purchase equipment and software. Current faculty are adequate for the first two years of the program, and an additional faculty member will be added in each of the third and fourth years with enrollment increase funding.

Recommendation

It is recommended that the Board of Governors approve the request to establish a Bachelor of Science degree in Engineering Technology at Elizabeth City State University effective January 2007.