The department offers programs leading to the Bachelor of Science Degree in Engineering Technology, Industrial Technology and Aviation Science. To promote and fulfill the mission and the goals set by the department of technology, the department has been involved in a number of activities and initiatives during fall semester 2009. A brief summary of these activities along with relevant information for each program are provided below.

**Student Enrollment and Recruitment**
This semester there has been a significant increase in enrollment in both engineering technology and aviation science programs. An increase of more than 50% is documented for both programs. This increase is result of direct recruitment activities by the department and its faculty. The department of technology participated in a number of recruitment activities sanctioned by ECSU. The department also has been involved in program specific recruiting by developing outreach and articulation agreement with local high schools and community colleges respectively. Recently an articulation agreement between the Department of Technology at ECSU and the Department of Computer Systems & Electronics Technology at College of Albemarle (COA) was approved. This will compliment the recruitment activities by increasing the number of transfer students. Following lists the current enrollment in the Department of Technology:

- Total: 160
- Engineering Technology Program: 67
- Industrial Technology Program: 46
- Aviation Science: 47

**Summary of Current Course Offerings**
Following lists the current course offering for the department of technology along side with the number of sections available for each course.

- Total Number of courses: 29
- Total Number of classes: 30

- 01 Quality Assurance
- 01 Applied Mechanics
- 01 Microprocessors II
- 01 Network Comm. II +Lab
- 01 Operating System for Tech.
- 01 Intro. to Eng. Technology
- 01 CAD Solid Modeling
Course Assessment
The following courses are selected as the introductory and capstone courses for assessment in each program:

Engineering Technology Program
ENGT 103 Introduction to Engineering Technology
ENGT 499 Senior Project

Industrial Technology Program
TECH 103 Principles of Technology
TECH 499 Senior Project

Aviation Science Program
AVI 100 Introduction to Aviation
AVI 465 Aviation Capstone Senior Project

Student Data
Following summarizes the data for Dec. 09 prospective graduates:
Total graduates: 5
Industrial Technology: 4
Faculty Recruitment
Department of Technology is currently in the process of recruiting for Patterson Endowed Professor position (position #165). This position is to provide leadership in the area of Engineering/Technology education, facilitate collaborations between the STEM (Science, Technology, Engineering and Mathematics) and P-12 STEM education majors, emphasizing the T and E fields (i.e., Technology and Engineering), and the recruitment and retention of mathematics and science teacher education majors. This position requires a doctorate in engineering or a related area with relevant professional experience with an established record of research and potential research agenda. Applicant must have a MS degree in engineering or related disciplines, with university teaching experience. Industry experience in technology-related fields and engagement efforts in STEM education preferred.

Curriculum Revision
This semester the Department of Technology’s curriculum committee approved a number of changes to enhance the curricula for the Industrial Technology and Engineering Technology programs. These changes which are to be reflected in ECSU 2010-2012 undergraduate catalog include collapsing the three concentrations in industrial technology program into one concentration, revising the course abbreviations and course numbers and creating a new course in occupational safety. These changes are pending approval by the ECSU curriculum committee.

Industrial Technology Program Reaccreditation
Currently the Department of Technology is in the process of developing a self-study report as part of the requirements for the reaccreditation by The Association of Technology, Management, and Applied Engineering (ATMAE) for its Industrial Technology program. This report will be submitted in February 2010 followed by the subsequent site visit by ATMAE during April 2010.

Unit Assessment and SACS
Department of Technology is conducting assessment for all of its programs. As part the university wide SACS effort the department of technology has been involved in developing the various components of WEAVEonline (a web-based tool that helps manage accreditation, assessment, planning, and quality improvement processes) for its programs. This includes curriculum mapping and assessment methods for both introductory and capstone courses for each program

Research and Grant Proposals
During this semester five grant proposals have been submitted to various state and federal agencies by the faculty members of the department of technology. Following list the proposals submitted to various finding agencies.


“Wind for Schools in Coastal North Carolina,” Submitted to North Carolina Sea Grant in collaboration with NC Solar Center, (PIs: Brian Miles & Mehran Elahi, $120k, pending).


“Information Assurance Scholarship Program,” Submitted to DOD, (PI: Akbar Eslami, $10.5k, Funded)

“Summer Transportation Institute,” submitted to NC department of Transportation, (PIs: Ellis Lawrence & Kuldeep Rawat, $65k)

The first two proposals, with the goal of helping coastal North Carolina communities to make efficient use of their wind energy resources while strengthening their long-term economic health through wind energy education and job training, have the following objectives:

1. Establish a Wind Application Center (WAC) on the ECSU campus
2. Partner with ten (10) K-12 schools in coastal North Carolina to support the installation of demonstration small wind turbines and install wind observation equipment.
3. Plan and hold three (3) teacher training workshops for teachers in partner schools.
4. Develop wind resource assessment curricula for the renewable energy program at ECSU.

These activities are intended to establish a pipeline to assist recruitment of top students from local high schools into the engineering program at the department. It also directly supports the goals set by the UNC Tomorrow Initiative.

This semester Elizabeth City State University was selected as one of 10 colleges and universities in the United States to receive a highly competitive 2009 HP Innovations in Education grant. This $284,000 grant was given to the Department of Technology and is intended to help students pursue and complete high-quality, high-tech undergraduate degree programs in engineering, computer science, information systems, and information technology.

**Faculty Professional Activities**

Three faculty members from the department participated in 2009 ATMAE (The Association of Technology, Management, and Applied Engineering) Annual Conference: "Emerging & Green Technologies for Today's Economic Challenges" which was held during November 10-14, 2009, in Louisville, Kentucky. These faculty members made presentations and participated in a number of workshops.

**Student Internship/Coop training**
Department of technology has initiated a number of outreach in hope of securing internship or coop training for its students. This semester department of technology participated in two meeting with the representatives of United States Coast Guard (USCG) in hope of securing internship training for two students. These internships are to be offered to two junior or senior level students. These internships will be part-time during the academic year and full-time during the summer.

In addition, as of now, two students have secured coop/internship positions with the following industries:

1. George Harris, a senior in Engineering Technology program, has been selected for a summer coop program with ExxonMobil Development Company-Drilling in Houston, Texas during summer of 2010.
2. Vernon Brown, a senior in Industrial Technology program, has been selected for a Coop training program with CISCO in Research Triangle Park, NC during Spring 2010 semester.

**Student Activities**

Department of Technology students participated in a number of activities during this semester. Mr. Daniel Long a junior in Engineering Technology program was selected to participate in Thurgood Marshall College Fund’s 2009 Leadership Institute which was held in New York, NY during October 23-27, 2009.

Mr. George Harris, a senior in Engineering Technology program, was one of the four ECSU participants in the VA-NC LSAMP Graduate School Preparation Retreat Application which was held at The University of Virginia in Charlottesville, VA September 18th through September 20th, 2009.

Mr. George Harris, a senior in Engineering Technology program, participated in 2009 National Association of African American Honors Programs Conference (NAAAHP) which was during November 11-14 in Miami, FL. His presentation on Renewable Energy Resources won the 2nd place.

This semester five students from the Department of Technology have been involved in the undergraduate research activities as part of the requirement for participating in VA-NC LSAMP program.

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