

# Program Review Year 2007 – 2008

## Name of Program:

Electronic Technology: Computer Systems Option

### Program Review Team Members

#### Name

Lori Heymans

Paul Chanley

Virginia Anderson

#### Title

Assistant Professor, Project Leader

Assistant Professor, Program Coordinator

Coordinator of Career Exploration Co-op job  
developer, Computer and Information Sciences,  
Electronic Technology, Graphic Design

## II. ACTION PLAN

**For each identified weakness or area in which improvement is desirable, submit an Action Plan.** *(When designing the Action Plan, a suggested plan would include the elements of Process Management using a Plan-Do-Study-Act (PDSA) cycle.) (Note: Add as many of the following tables as necessary.)*

Problem	Improvement Activity	Person Responsible	Date of Activity	Findings
Change name of Program: <b>From</b> Electronic Technology: Computer Systems Option  <b>To</b> Electronic Technology: Computer Network Systems Option	Minor program Change	TBD		
Analysis: This information will be submitted to the Academic Affairs Committee.				

Problem	Improvement Activity	Person Responsible	Date of Activity	Findings
Change Electronic Technology required course in the Academic Advising Handbook	Program Elective add: Sequence one PHS111 Or EST111 Sequence two PHS112 Or EST112	TBD		
Analysis: The addition/option of Sequence one PHS111 Or EST111, Sequence two PHS112 Or EST112 gives the student the option for attaining a Computer Aided Drafting (CAD) certificate.				

Problem	Improvement Activity	Person Responsible	Date of Activity	Findings
Change Electronic Technology: Computer Systems Option to add required courses to the Academic Advising Handbook	Add Technical Electives only CTN201- Computer Networking I and Computer Networking II	TBD		
Analysis: The progression from Computer Network Certificate to an Associates' Degree offers a narrow and incomplete career path which has led to lower enrollment. Because students are limited to the Electronic Technology program with the Computer Systems option at NECC, it is likely that students will choose to pursue other avenues outside of NECC such as competitive technical and training programs to continue their advance networking education. The CTE Department needs to invest time and effort to create an alternate education pathway for the students not choosing the Electronic Technology with the Computer Systems option. This creates a progressive and inclusive education pathway that should attract and preserve more computer networking students to continue with our programs at NECC.				

Problem	Improvement Activity	Person Responsible	Date of Activity	Findings
<p>Faculty Mentors The CTE department should consider implementing a Faculty Mentoring Program to create a link between adjunct, newly-appointed, and tenure-track faculty.</p>	<p>Cross train current full - time faculty.</p> <p>Bring in new DCE faculty.</p> <p>This effort would be a useful way of helping new faculty members adjust to their new environment, retraining adjunct faculty for the Computer Network Certificate, and improving the quality of technical education provided to students.</p>	<p>TBD</p>		
<p>Analysis: A plan needs to include utilizing the DCE members as teachers and mentors for new and/or current faculty who would deliver the course material.</p>				

### III. RESOURCES REQUESTED

Complete the following chart, including quotes from vendors, diagrams for requested space, and draft postings as appropriate. (Note: Add rows, increase row height, etc., as needed.)

1. EQUIPMENT				
Item	Justification	Vendor (include contact information)	Cost	Date Needed
MATLAB training	Incorporate MATLAB across the curriculum	<p><b>Training - Courses</b></p> <p><b>ML01: MATLAB Fundamentals and Programming Techniques</b></p> <p>MATLAB Fundamentals and Programming Techniques is a two-day course that provides a working introduction to the MATLAB technical computing environment. This course is intended for beginning and intermediate users. <b>CTE has secured funds from the BAYTEC grant to support the action. There is no cost to NECC.</b></p>	<p>Course Length - 2 days</p> <p>2 faculty</p> <p><b>Price - \$2,200.00 + software</b></p>	Fall 2007
ASEE annual conference	This conference is the largest forum for engineering educators. Many four- and two- year institutions are represented. Also, the proceedings have a K-12 engineering division. The latest in class room subject content, creative methods for student engagement and the newest educational technology are presented. Also, many vendors and industry representatives participate in this conference.	Two faculty reimbursement for travel in the spring/summer semester. <b>CTE has secured funds from the PERKINS GRANT to support the action. There is no cost to NECC.</b>	\$3,000	Spring 08

**2. PERSONNEL**

Position (identify as faculty, staff, etc.)	Justification	Credentials/area of content expertise related to curriculum	Salary	Date Needed
Part-time marketing/PR staff.	Increase the awareness of all the technical programs available at NECC.  Establish marketing/recruiting plan for the technical programs			Fall 2007

**3. SPACE**

Type of space requested	Justification	Description (include square feet, construction requirements, e.g., plumbing, electricity, data ports)	Cost	Date Needed
'A				