NTID
Applied Computer Technology Program
Outcomes and Assessment Proposal

Program Goal: Provide students with job entry skills to acquire a variety of positions in the computer field as computer operators,
PC support technicians and/or network technicians.

Critical Outcomes for all Students (Ss)		**Assessment of Outcomes**		**Timeline**		**Use of Results**
Domain or Task or Capability (Goal, optional)	Performance Element with Benchmarks (Criteria & Standards)	Instrument or Opportunity	Assessment of performance(s) for the instrument or opportunity proposed.	Development of Assessment Tool	Collection of Data	
1. Hardware (Technical)	a. *Managing and Maintaining a PC:* students will be able to assemble, upgrade, configure, repair and maintain a personal computer. b. *Managing and Maintaining an Operating System:* students will be able to install, configure, diagnose and maintain operating systems, drivers and application software.	a.-b. To occur at the end of the first year during a hands-on exam at the end of 0805-217 PC Hardware II.	a. Given the written functional specifications of a PC and the necessary system component parts, **(80% of)** all students will be able to assemble a workable PC including configuration, diagnostics, repair, maintenance and software installation. b. Given the written description of the required configuration of an operating system with its directories and file structures, **(80% of)** all students will be able to perform a variety of functions including OS installation and configuration, application program installation and management, creation and management of	a-b. Fall 20021 and Spring 20023	Fall 20031	

			directories and file structures, partitioning and preparation of storage media.			
2. Networking (Technical)	a. Client Server Network: students will be able to connect, configure, manage and troubleshoot a multi-platform client-server network that supports file and print sharing. b. Enterprise Network: students will be able to connect, configure, and troubleshoot an enterprise network connection to an external network and remote users.	a. To occur through a hands-on exam at the end of 0805-225 Networking II. b. To occur through a hands-on exam at the end of 0805-225 Networking III.	a. Given the resources and functional/ performance specifications, **(80% of)** all students will be able to connect, configure, manage, and troubleshoot a small intranet client/server network. b. Given the resources and functional/ performance specifications, **(75% of)** all students will be able to connect, configure and troubleshoot the network connection to an external network and remote users.	a. Winter 20022 and Spring 20023 c. Fall 20021 and Winter 20022	a. Winter 20032 b. Fall 20031	
3. Applications (Technical)	*Programming*: students will be able to design, code, and debug a computer program.	To occur through a hands-on exam at the end of the course 0805-231 Programming II.	Given a written description of a problem, **(70% of)** all students will be able to implement a software solution to the problem.	Winter 20022 and Spring 20023	Winter 20032	
Option A: Computer Support: Additional Technical Outcomes						
Critical Outcomes for all Students (Ss)		**Assessment of Outcomes**		**Time Lines**		**Use of Results**
Domain or Task or Capability (Goal, optional)	Performance Element with Benchmarks(Criteria & Standards)	Instrument or Opportunity	Assessment of performance(s) for the instrument or opportunity proposed.	Development of Assessment Tool	Collection of Data	
Computer Operations	a. *Job Processing*: students will be able	a. To occur through a hands-	a. Given a midrange computer	Fall 20021 & Spring 20023	Fall 20031	

(Technical)	to run a job stream.	on final exam at the end of 0805-207 Multiprogramming and Spooling for Midrange Computers	system, **(85% of)** all students will be able to prepare, schedule, and run a job stream on that computer.			
Option B: Industrial Computer Electronics: Additional Technical Outcomes						
Electronics (Technical)	a. *Instrumentation:* student will be able to appropriately select and effectively use electronic equipment and instrumentation to connect, measure, and troubleshoot electronic circuits. b. *Interfacing*: students will be able to interface electronic components with peripherals connected to a computer system in a variety of ways.	a.- b. To occur through assigned projects and the final exam in the course 0805-330 Microprocessor I.	a. Given a representative industrial electrical/electronic circuit, **(80% of)** all students will be able to select and use appropriate equipment and instrumentation to connect, measure and troubleshoot. b. Given representative electronic components and peripherals, **(80% of)** all students will be able to interface the peripheral to the computer correctly and troubleshoot related interfacing problems.	a-b. Fall 20021 & Spring 20023	Fall 20031	
Other:						
Student Satisfaction	**Graduating students will indicate satisfaction with program courses.**	**Student Satisfaction Survey**	**(_____% of) students will indicate a score of _____ or above (_____ point scale) on related program satisfaction components on Student Survey.**			
Alumni Satisfaction	**Alumni will indicate satisfaction on**	**Alumni Survey**	**(_____% of) alumni will indicate a score of**			

	related job preparation components.		**_____ or above (_____ point scale) on related job preparation components of the Alumni Survey.**			
Job Placement	**Graduates will be employed in the field.**	**NCE Placement Data**	**(_____% of) graduates will be employed in the field.**			
Co-op Work Experience	**Students will demonstrate technical competency on co-op job.**	**Co-operative Supervisor Evaluation**	**(_____% of) students will achieve a score of 5 or above (7-point scale) on related technical skill items on Co-operative Supervisor Evaluation.**			
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