

Computer Engineering Technology - Program Learning Outcomes

	Program Learning Outcomes	Student Learning Outcomes	Measure of Assessment and Criteria for Success
1.	Students will demonstrate the ability to Safely repair and/or upgrade computer systems to perform within specifications.	<ul style="list-style-type: none"> • Students will demonstrate basic electrical and electronic safety. • Students will demonstrate the ability to build computer systems from a 	<ul style="list-style-type: none"> • 75% of the students attempting the A+ industry standard certification will pass. ---And/Or--- • 75% of the students will score an average of at least 75% on the written/hands-on comprehensive final exams at the end of fall semester for CET 111 and end of spring semester for CET 211.
2.	Students will demonstrate the ability to interpret, analyze, verify, and troubleshoot fundamental microprocessor circuits and programs using appropriate techniques and test equipment.	<ul style="list-style-type: none"> • Students will be able to build and troubleshoot basic computer interface boards. • Students will demonstrate the ability to program the microprocessor for use with the interface board. 	<ul style="list-style-type: none"> • 75% of the students will score an average of at least 75% on the microprocessor interface board project in ELN 232.
3.	Students will be able to demonstrate knowledge concepts associated with the data communication systems.	<ul style="list-style-type: none"> • Students will be able to program, simulate, and emulate communication circuits in a real world communication example. • Students will have developed an in depth understanding of Internet Protocol. 	<ul style="list-style-type: none"> • 75% of the students attempting the CCNA certification exam will pass. ---And/Or--- • 75% of the students will score an average of at least 75% on the written/hands-on comprehensive final exams at the end of fall semester for ELN 235 and CET 251 and end of spring semester for ELN 257.
4.	Students will be able to set up and maintain Internet servers.	<ul style="list-style-type: none"> • Students will be able to install and manage both web server software and hardware. • Students will have developed an in depth understanding of Internet Protocol. 	<ul style="list-style-type: none"> • 75% of the students attempting the related Microsoft Certified Professional certification will pass. ---And/Or--- • 75% of the students will score an average of at least 75% on the written/hands-on comprehensive final exam for CET 245.
5.	Students will be able to construct, analyze, verify, and troubleshoot digital circuits using appropriate techniques and test equipment.	<ul style="list-style-type: none"> • Students will construct and troubleshoot digital circuits. • Students will demonstrate the ability to construct, analyze, verify and troubleshoot digital circuits. • Students will be able to use appropriate test equipment. 	<ul style="list-style-type: none"> • 75% of the students will score an average of at least 75% on the microprocessor interface board project in ELN 133