



Program: Electronics Engineering Technology									
CIP: 15.0303									
LIST ALL COURSES REQUIRED AND IDENTIFIED COMPETENCIES									
Competencies								Course Number	Course Title
1	2	3	4	5	6	7	8		
X				X	X	X		CETT 1321	Electronic Fabrication
X	X	X	X	X		X		CETT 1403	D. C. Circuits
X	X	X	X	X		X		CETT 1425	Digital Fundamentals
X	X	X	X	X		X		CETT 1405	A. C. Circuits
X	X			X	X	X	X	CETT 1331	Programming for Discrete Electronic Devices
X	X	X	X	X	X	X		CETT 1341	Solid State Circuits
X		X		X		X		CETT 1429	Solid State Devices
X	X			X		X	X	CETT 1345	Microprocessors
X	X	X	X	X		X		CETT 1457	Linear Integrated Circuits
X	X	X	X	X	X	X		EECT 2339	Communication Circuits
X	X	X		X		X	X	ELMT 1301	Prog. Logic Controllers
X	X	X	X	X	X	X		CETT 2349	Research and Project Design
X	X	X					X	ELMT 2433	Industrial Electronics
X	X							ENGL 1301	English
		X						MATH 1314	College Algebra
		X						Math 1316	Trigonometry
								Elective	Social Behavioral Science
								Elective	Humanities/Fine Arts
								COMPETENCY REFERENCES	
								8 Basic use of computers	
								7 Workplace Competencies: resources; interpersonal skills; information; systems; and technology.	
								6 Personal Qualities: A worker must display responsibility, self-esteem, sociability, self-management, integrity, and honesty.	
								5 Thinking Skills: A worker must think creatively, make decisions, solve problems, visualize, know how to learn, and reason effectively.	
								4 Speaking and Listening: Organize ideas and communicate orally; receive, attend to, interpret, and respond to verbal messages and other cues.	
								3 Arithmetic or Mathematics: Perform basic computations and approach practical problems by choosing appropriately from a variety of mathematical techniques.	
								2 Writing: Communicate thoughts, ideas, information, and messages in writing, and create documents such as letters, directions, manuals, reports, graphs, and flow charts.	
								1 Reading: Locate, understand, and interpret written information in prose and in documents such as manuals, graphs, and schedules.	



SCANS COMPETENCIES FOR PROGRAM Electronics Eng. Tech.			
ACADEMIC YEAR 2017-2018			
Competency	Course where Competency is Assessed	Method of Assessment	Findings and Plans for Improvements
1 READING: Locate, understand, and interpret written information in prose and in documents such as manuals, graphs, and schedules.	Technical courses throughout the program curriculum. Final assessment in CETT 2439 Capstone. See SCANS Matrix.	Departmental Exams, Laboratory Exercises	Reading skills are satisfactory. The department will continue to integrate reading comprehension assignments into the curriculum.
2 WRITING: Communicate thoughts, ideas, information, and messages in writing, and create documents such as letters, directions, manuals, reports, graphs, and flow charts.	Technical courses throughout the program curriculum. Final assessment in CETT 2439 Capstone. See SCANS Matrix.	Departmental Exams, Laboratory Exercises, Writing assignments	Department implemented additional writing assignments-technical documentation, journal entries, and procedural documentation spring 2018. Students writing skills improved throughout semester. 83%of students were proficient in writing procedure and operations manuals
3 ARITHMETIC OR MATHEMATICS: Perform basic computations and approach practical problems by choosing appropriately from a variety of mathematical techniques.	Technical courses throughout the program curriculum. Final assessment in CETT 2439 Capstone. See SCANS Matrix.	Departmental Exams, Laboratory Exercises	Students performed well on math skills. Mathematical problems are implemented on lab work and exams. 90% of students were able to correctly calculate current, resistance, voltage and power. 76% of students correctly solved a bandpass RLC circuit
4 SPEAKING AND LISTENING: Organize ideas and communicate orally; receive, attend to, interpret, and respond to verbal messages and other cues.	Technical courses throughout the program curriculum. Final assessment in CETT 2439 Capstone. See SCANS Matrix.	Departmental Exams, Laboratory Exercises	Speaking skills and the ability to explain a concept need improvement. Students will be required to verbally explain concepts throughout the program. 83%of students were proficient in writing procedure and operations manuals and verbally detailing their work.
5 THINKING SKILLS: A worker must think creatively, make decisions, solve problems, visualize, know how to learn, and reason effectively.	Technical courses throughout the program curriculum. Final assessment in CETT 2439 Capstone. See SCANS Matrix.	Departmental Exams, Laboratory Exercises	Thinking and problem solving skills are stressed throughout the program. Students perform satisfactorily in problem solving skills. 73% of students demonstrated proficiency in critical thinking.
6 PERSONAL QUALITIES: A worker must display responsibility, self-esteem, sociability, self-management, integrity, and honesty.	Technical courses throughout the program curriculum. Final assessment in CETT 2439 Capstone. See SCANS Matrix.	Departmental Rubric based on students' performance in both the classroom and laboratory setting.	Students overall performance was satisfactory. All students supported each other and worked well together in the lab.

<p>7 WORKPLACE COMPETENCIES: resources; interpersonal skills; information; systems; and technology</p>	<p>Technical courses throughout the program curriculum. Final assessment in CETT 2439 Capstone. See SCANS Matrix.</p>	<p>Departmental Rubric based on students' performance in both the classroom and laboratory setting.</p>	<p>Students performed satisfactorily. The project leader did a good job coordinating but the fact that parts of the project were constructed outside of the lab left some students unable to participate as much as desired. Project was completed successfully but work was not equally divided among the class. Some students took on the majority of the work. This was partly due to the need to construct substructures outside of the lab. Future projects should consider this and impart the need to select a project that can be constructed where all students have access. See ACLAS for total Capstone experience..</p>
<p>8 BASIC USE OF COMPUTERS</p>	<p>CETT1331,CETT1445, ELMT1301,ELMT2433</p>	<p>Software programming project</p>	<p>CETT 1331 offered 1st semester to improve programming skills. Microprocessor course added machine language projects. All student completed projects successfully.</p>