

PLANNING/OUTCOMES DOCUMENT

Name of person(s) completing form:		Michael Deaver Ron Poor	Curriculum/Department:	Computer Engineering Technology	
Purpose/Mission Statement:			Vision Statement: (3-5 years)		
<p>The Computer Engineering Technology curriculum provides the skills required to design, install, troubleshoot and maintain microprocessor based, computer controlled and networking equipment. Graduates qualify for skills required in Wide Area Networking, Process control/engineering in a manufacturing environment, Product Design, Robotics and automation.</p> <p>Graduates are also prepared for certification requirements in computer maintenance and network operating systems. Certified faculty provides instruction.</p>			<p>The Computer Engineering Technology students are learning the technical, applied and hands on skills for the next generation emerging video, voice, data communication and manufacturing technologies.</p> <p>Ours is a learning environment that allows students to experiment, make mistakes, learn, and have fun. We will cater for employer satisfaction by providing the skills required in the jobs of the 21st century.</p>		
Program Strengths:			Program Weaknesses:		
<p>Strong hands on approach to the learning process strengthens the students' understanding of the challenging subject areas. The Cisco networking curriculum is embedded in the program of study which gives our students an added advantage over similar majors at other institutions.</p>			<p>This is an equipment and supply intensive technical program, and is therefore costly to maintain. While it has received above average budget allocations(in comparison to other programs at the college), most of the funding must be spent for ongoing costs leaving little for expansion items in new and emerging technologies that would keep the graduates a step ahead of their peers.</p>		
Program Opportunities:			Program Threats:		
<p>The support of local business has allowed students to see the computer and networking world in action. In the past various companies have given us donations of old equipment, hopefully we will find another this year.</p>			<p>Lack of recruiting for the program. Even though the program numbers actually improved this semester, it is not what it has been or should be for Computer Engineering Technology.</p>		
Goal #	Values for Teaching	College Goals	2006-2007 Department Outcomes/Goals	Success Criteria (e.g. outcomes, enrollment increases)	Plan of Action (including resources needed)
1	1	1	Majors in the program will demonstrate the ability to	75% of the students will score an average of at least	<ul style="list-style-type: none"> Create an effective learning environment where students
	2	2			

	5 6 9		interpret, analyze, verify, and troubleshoot fundamental microprocessor circuits and programs using appropriate techniques and test equipment.	75% on the microprocessor interface board project in ELN 232.	develop the skills and knowledge that enables them to correctly build and troubleshoot basic computer interface boards and program the microprocessor for use with the interface board. <ul style="list-style-type: none"> • Monitor student performance on the interface board project in the Introductions to Microprocessors course.
2	6 9	1 7	Employers will be satisfied with the entry level skills of Computer Engineering program graduates	85% of employers surveyed will indicate they are satisfied with the entry-level skills of program graduates	<ul style="list-style-type: none"> • Ascertain skills needed from advisory committee and other potential employers. • Monitor results of employer survey as conducted for the annual program review.
3	1 5 6 9	1 7	Graduates will be satisfied with the technologies employed in support of student learning in the CET program.	Graduate survey results will indicate that 90% of graduates were satisfied with the technologies used in the program.	<ul style="list-style-type: none"> • Identify technology trends from consultation with program advisory committee members and other potential employers. • Research the Internet, and relevant magazines for new and emerging technology trends. • Obtain new and emerging technologies for the Computer Engineering curriculum, which will keep our graduates ahead of their peers. • Monitor results of graduate survey as conducted for the annual program review.
4	1 2 5 6 9	1 2	Majors in the program will be able to demonstrate knowledge concepts associated with the data communication systems.	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.	<ul style="list-style-type: none"> • Create an effective learning environment where students develop the skills and knowledge that enables them to correctly program, simulate, and emulate communication circuits in a practical communication example.

					<ul style="list-style-type: none"> • Monitor student performance on comprehensive final exams in Software Engineering Principles, Data Communication Systems, and Telecom Software courses.
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Budget Item Description: (Budget items requested from college funds)	Current Year Budget (Total Request):	Ongoing Operational Budget:	Expansion Budget:
Supplies- Combined with EET budget request	See EET	See EET	
Equipment- Combined with EET budget request	See EET	See EET	
Travel-	See EET	See EET	
Program Accreditation-	See EET	See EET	
Other- Combined with EET budget request	See EET	See EET	
TOTALS Combined with EET budget request	See EET	See EET	

Goal	Criteria Results Be sure to utilize most current data available	End of Year Analysis (Goals achieved, impact of equipment purchased, improvements to your program, contingencies, etc.) Describe how you used the results to improve your program
1.	<p>75% of the students attempting the interface board project made a 75% or better.</p> <p>67% of all students enrolled in ELN 232 made a 75% or better on the interface board project, however one student had stopped attending and did not attempt the project.</p> <p>The criterion was met.</p>	<p>Although the criterion was met, upon analyzing the students work, it has been determined that additional hands-on labs would be beneficial to the students.</p>
2.	<p>85% of employers surveyed will indicate they are satisfied with the entry-level skills of program graduates. (cannot be determined if this result was accurate since no surveys were sent out) However, members of the advisory committee indicated that they were pleased with the entry-level skills of our program graduates.</p>	<p>We will continue to strive to give students not only the knowledge required but also the hands-on skills necessary to set them above and beyond the abilities of their peers.</p>
3.	<p>Graduate survey results indicated that 100% of graduates were satisfied with the technologies used in the program.</p> <p>The criterion was met.</p>	<p>Technology changes at such a hurried pace that it is a continuing struggle to keep equipment/supplies/classes updated with the most recent development.</p>
4.	<p>80% of the students attempting the comprehensive written/hands-on final exam made a 75% or better.</p> <p>67% of all students enrolled in ELN 235 and CET 251 made a 75% or better on the comprehensive final. One student had stopped attending and did not attempt</p>	<p>The results show that the students in the Fall semester class met the criterion, but the students in the Spring semester class did not meet the criterion.</p> <p>After reviewing the grades, and the students, it was found that the Spring semester students took a larger number of classes.</p>

	<p>the final.</p> <p>60% of the students attempting the comprehensive written/hands-on final exam made a 75% or better in ELN 257, however 80% of the students made a 70% or better.</p> <p>The criterion was met on the first part but not for the second part.</p>	<p>As a result, additional time could be given to lab work to help reinforce the student's hands-on skills.</p>