COURSE REVISION FORM

NEW DROPPED	MAJOR REVISION _X FOR INFORMATION ONLY	
CollegeCOTS	Program AreaElectrical Technology _	Date _3/1/07
Submitter Signature	Chair/Dean Signature (indicates "college" level appro-	val) Date
	& rationale for the proposed revision(s): be more towards industry standards and expectations w	ithin the industry.
College: Program Area: Date:	College of Technical Sciences Electrical Technology	
Course Prefix & No.:	ELEC 106	
Course Title: Credits:	Electrical Formulas and Calculations	
Required by:	Electrical Technology	
Selective in:	n/a	
Elective in: General Education:	n/a	
Lecture: Lecture/Lab:	x	
Contact hours lecture: Contact hours lab:	3	

Current Catalog Description (include all prerequisites):

This course covers the basic formulas needed to determine electrical values in typical electrical installations including power, current, and voltage. Basic methods of calculation for both DC and AC quantities will be discussed and demonstrated as well as the use of modern calculators and computer software to determine necessary values.

Course Outcome Objectives:

The student will be able to:

- Articulate the basic electrical principles including ohms law and the basic power equation
- Identify the source of more complicated electrical formulae needed to calculate AC power, power factor and phase angle, voltage drop, conductor ampacity, etc.
- Utilize a general purpose calculator to compute necessary values
- Use modern computer hardware to perform detailed analysis of AC and DC electrical systems
- Math formulas applying to job invoicing & estimating cost

Additional instructional resources needed (including library materials, special equipment, and facilities). Please note: approval does not indicate support for new faculty or additional resources.