

## FLORIDA STATE COLLEGE AT JACKSONVILLE

## COLLEGE CREDIT COURSE OUTLINE

COURSE NUMBER:	EET 1011
COURSE TITLE:	DC Electrical Theory and Digital Circuits
PREREQUISITE(S):	None
COREQUISITE(S):	None
CREDIT HOURS:	3
CONTACT HOURS/WEEK:	4
CONTACT HOUR BREAKDOWN:	
Lecture/Discussion:	3
Laboratory:	1
Other _____:	
FACULTY WORKLOAD POINTS:	3.67
STANDARDIZED CLASS SIZE ALLOCATION:	24
CATALOG COURSE DESCRIPTION:	
	Topics include concepts of work and energy, electrical terminology, Ohm's Law, and DC circuitry, with an introduction to fundamental digital electronic devices and circuits, including TTL logic, binary numbers, codes, Boolean algebra, and combination logic circuits.
SUGGESTED TEXT(S):	<u>Foundation of Electronics</u> , latest edition, by Russell L. Meade, Delmar Publishers; ISBN: 0-7668-0427-5
IMPLEMENTATION DATE:	Fall Term, 2002 (20031)
REVIEW OR MODIFICATION DATE:	

COURSE TOPICS	<u>CONTACT HOURS PER TOPIC</u>
I. Concepts	6
A. Work and Energy	
B. Energy Conversion	
C. Structure of Matter	
II. Electrical Terminology	8
A. Conductors	
B. Insulators	
C. Voltage	
D. Current	
E. Resistance	
III. Ohms Law	8
A. Voltage	
B. Current	
C. Resistance	
D. Formulas	
IV. Power	8
A. Definitions of	
B. Watts	
C. Formulas	
V. Circuits	8
A. Definitions of	
B. Series	
C. Parallel	
D. Combination	
VI. Lab Experiments	12
A. Voltages	
B. Circuits	
C. Current	
D. Resistance	
VII. Electrical Safety	4
A. Lab	
B. On-The-Job	

COURSE TOPICS (continued)	<u>CONTACT HOURS PER TOPIC</u>
IX. Electrical Symbols A. Schematics B. Diagrams	6

PROGRAM TITLE: Computer-Integrated Manufacturing Technology

COURSE TITLE: DC Electrical Theory and Digital Circuits

CIP NUMBER: 0615.049901

LIST PERFORMANCE STANDARD ADDRESSED:

NUMBER(S): TITLES(S):

02.0 DEMONSTRATE PROFICIENCY IN MANUFACTURING PROCESSES - The student will be able to:

02.03 Understand electrical devices used in production assembly and materials handling

02.16 Understand the functions of the industrial computer and microprocessor controls in modern manufacturing

03.0 DEMONSTRATE PROFICIENCY IN OPERATING AND MAINTAINING MANUFACTURING EQUIPMENT FOR AUTOMATED ASSEMBLY - The student will be able to:

03.01 Interpret blueprints, schematics, and technical manuals