Miami Dade College

Computer Engineering Technology
Associate in Science | Code: 26052 | 68 credits
CIP (1615120100**)**
Effective Term: Fall 2024 (2247)

The Computer Engineering Technology program prepares students for employment as computer engineering technicians or technologists and in related occupations in electronics. It also provides supplemental training for persons currently or previously employed in these occupations. The program focuses on the understanding and applying of hardware and software concepts, in addition to troubleshooting techniques to digital, microprocessor or computer-based systems. Assembly, installation, operation, maintenance, calibration, troubleshooting, repairing and elementary designs of medical systems are taught using an integrated and theoretical approach.

GENERAL EDUCATION REQUIREMENTS (15.00 Credits)
COMMUNICATIONS (3.00 credits)

ENC 1101	English Composition 1	(3 credits)	Prerequisite: Student must meet the Developmental Education reading and writing requirements in State Rule 6A-10.0315 (by course, placement score, or eligible exemption).

HUMANITIES (3.00 credits)

ARH 1000	Art Appreciation	(3 credits)	
HUM 1020	Introduction to Humanities	(3 credits)	
LIT 2000	Introduction to Literature	(3 credits)	Prerequisite: ENC 1101
MUL 1010	Music Appreciation	(3 credits)	
PHI 2010	Introduction to Philosophy	(3 credits)	
THE 2000	Theatre Appreciation	(3 credits)	

MATHEMATICS (3.00 credits)

MAC 1105	College Algebra	(3 credits)	Prerequisite: MAT 1033♦

♦**Note:** Students must seek advisement for proper mathematics course from discipline chairperson.

NATURAL SCIENCE (3.00 credits)

AST 1002	Descriptive Astronomy	(3 credits)	
BSC 1005	General Education Biology	(3 credits)	
CHM 1020	General Education Chemistry	(3 credits)	
ESC 1000	General Education Earth Science	(3 credits)	
EVR 1001	Introduction to Environmental Science	(3 credits)	
GLY 1010	Physical Geology	(3 credits)	
OCE 1001	Introduction to Oceanography	(3 credits)	
PHY 1020	General Education Physics	(3 credits)	
PHY 2053	Physics (without Calculus) 1	(3 credits)	Prerequisite: MAC 1114 or MAC 1147; Corequisite: PHY 2053L

SOCIAL SCIENCE (3.00 credits)

AMH 2010	History of the US to 1877	(3 credits)	
AMH 2020	History of the US since 1877	(3 credits)	
POS 2041	American Federal Government	(3 credits)	

COMPUTER COMPETENCY
Test type(s) needed:
Computer Competency Test (CCT)
---or---
CGS 1060C   Introduction to Computer Technology & Applications

MAJOR COURSE REQUIREMENTS (46.00 Credits)

CET 1110C	Digital Circuits	(4 credits)	Prerequisites: EET 1015C, MAC 1105; Pre/Corequisite: COP 2270
CET 1171	Introduction to Computer Service and Maintenance	(3 credits)	
CET 1178C	A+ Computer Hardware Service	(3 credits)	Prerequisite: CET 1171
CET 1487C	Network+	(3 credits)	
CET 2113C	Advanced Digital Circuits	(4 credits)	Prerequisites: CET 1110C, COP 2270; Pre/Corequisite: EET 1141C
CET 2123C	Microprocessors	(4 credits)	Prerequisites: CET 1110C and COP 2270
CET 2588C	Server + Service and Maintenance	(3 credits)	
COP 2270	"C" for Engineers	(4 credits)	Pre/Corequisite: MAC 1105
EET 1015C	Direct Current Circuits	(4 credits)	Prerequisite: MAC 1105
EET 1025C	Alternating Current Circuits	(4 credits)	Prerequisite: EET 1015C; Pre/Corequisite: MAC 1114 or 1147
EET 1082	Introduction to Electronics	(3 credits)	
EET 2351C	Digital and Data Communications	(4 credits)	Prerequisite: CET 2123C.
MAC 1114	Trigonometry	(3 credits)	Prerequisite: MAC 1105 or MAC 1106

MAJOR COURSE ELECTIVE (7.00 Credits)

EET 1141C	Electronics 1	(4 credits)	Prerequisite: EET1025C, and MAC 1114 or MAC 1147
EET 2101C	Electronics 2	(4 credits)	Prerequisite: EET 1141C
EET 2323C	Analog Communications	(4 credits)	Prerequisite: EET 1141C
MAC*			
PHY*			