

CETT - ELECTRONIC TECHNOLOGIES

CETT 1341 Solid State Circuits 3 Credit Hours (3 Lec, 1 Lab)

A study of various semiconductor devices incorporated in circuits and their applications. Emphasis on circuit construction, measurements, and analysis. (Formerly ETEC 1323) Prerequisite: CETT 1429

Course Type: Technical/Vocational Course

CETT 1409 DC-AC Circuits 4 Credit Hours (4 Lec, 1 Lab)

Fundamentals of DC circuits and AC circuits operation including Ohm's law, Kirchhoff's laws, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques.

Course Type: Technical/Vocational Course

CETT 1425 Digital Fundamentals 4 Credit Hours (4 Lec, 1 Lab)

An entry level course in digital electronics to include numbering systems, logic gates, Boolean algebra, and combinational logic.

Course Type: Technical/Vocational Course

CETT 1429 Solid State Devices 4 Credit Hours (4 Lec, 1 Lab)

A study of diodes, transistor characteristics and other semiconductor devices, including analysis of static and dynamic characteristics, biasing techniques, and thermal considerations. Prerequisite: CETT 1409

Course Type: Technical/Vocational Course

CETT 1445 Microprocessor 4 Credit Hours (4 Lec, 1 Lab)

An introductory course in microprocessor software and hardware: architecture, timing sequence, operation, and programming. Discussion of appropriate software diagnostic language and tools. Prerequisite:

Credit or Concurrent enrollment in CETT 1425

Course Type: Technical/Vocational Course

CETT 1449 Digital Systems 4 Credit Hours (3 Lec, 2 Lab)

A course in electronics covering digital systems. Emphasis on application and troubleshooting digital systems.

Course Type: Technical/Vocational Course

CETT 1491 Special Topics in Computer Engineering Technology Technician 4 Credit Hours (3 Lec, 2 Lab)

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. (Formerly ETEC 2485) Prerequisite: Consent of Instructor. This course was designed to be repeated multiple times to improve student proficiency.

Course Type: Technical/Vocational Course

CETT 2281 Cooperative Education - Computer Engineering Technology/Technician CAPSTONE 2 Credit Hours (1 Lec, 10 Lab)

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Prerequisite: CETT 1429, CETT 1445, CPMT 1411, and CPMT 1449

Course Type: Cooperative Course, Technical/Vocational Course