COMPUTER ENGINEERING TECH (CMET)

CMET 331 Microcomputer Operating System (3 Credits)
Micro Computer Operating Systems (3) Basic functions, structure, and mechanism of modern operating systems; device management, input/output processing, and job management. Three hours of lecture per week. Prerequisite: ELET 243.
Prerequisite(s): (ELET 130)
College/School: Col of Science, Engr & Tech
Department: Department of Engineering

CMET 412 Senior Project I (1 Credits)
Lecture: 1, **Lab:** 0
Senior Project I (1) A capstone team project that includes a written proposal, with functional specifi cations and timetable of a project for approval by faculty members. Prerequisite: Senior status.
College/School: Col of Science, Engr & Tech
Department: Department of Engineering

CMET 415 Advanced Microcomp Network Lab (1 Credits)
Lecture: 0, **Lab:** 1
Advanced Microcomputer Networks Lab (1) Experiments utilizing hardware and software in the design, operation, and analysis of computer networks. Topics include LANS, WANS, networking components and techniques, standards and protocols. Two hours of laboratory per week. Prerequisites: ELET 411 and ELET 434. Co-requisite: CMET 435.
Prerequisite(s): (CMET 435 (may be taken concurrently))
College/School: Col of Science, Engr & Tech
Department: Department of Engineering

CMET 416 Appl of Microproc Software Lab (1 Credits)
Lecture: 0, **Lab:** 1
Applications of Microprocessor Software Laboratory (1) Practice in writing industrial application programs, such as floating point mathematical routines and special purposes languages utilizing micro assemblers. Two hours of laboratory per week. Co-requisite: CMET 436.
Prerequisite(s): (CMET 436 (may be taken concurrently))
College/School: Col of Science, Engr & Tech
Department: Department of Engineering

CMET 417 Data Communication Mthds Lab (1 Credits)
Lab: 1
Data Communication Methods Laboratory (1) Laboratory experiments in data communication devices. Modems, multiplexers, concentrators, frontend processor, error-checking, simplex/duplex transmission, and telecommunications. Two hours of laboratory per week. Co-requisite: CMET 437.
Prerequisite(s): (CMET 437 (may be taken concurrently))
College/School: Col of Science, Engr & Tech
Department: Department of Engineering

CMET 419 Peripheral Hardware Lab (1 Credits)
Lecture: 0, **Lab:** 1
Microcomputer Peripheral Hardware Laboratory (1) Experiments in the application of microprocessor peripheral hardware and interfacing, including the configuration and construction of a microprocessor system. Two hours of laboratory per week. Prerequisite: ELET 313. Co-requisite: CMET 439.
Prerequisite(s): (CMET 439 (may be taken concurrently))
College/School: Col of Science, Engr & Tech
Department: Department of Engineering

CMET 432 Senior Project II (3 Credits)
Lecture: 3, **Lab:** 0
Senior Project (4) A capstone team project that includes a written proposal, with functional specifications and timetable of a project for approval by faculty members. Formal oral and written presentations, and a prototype required. Prerequisites: Senior standing, and consent of Faculty Chair.
Prerequisite(s): CMET 412
College/School: Col of Science, Engr & Tech
Department: Department of Engineering

CMET 435 Advanced Microcomp Networks (3 Credits)
Lecture: 3, **Lab:** 0
Advanced Microcomputer Networks (3) Advanced topics in the design, operation, and analysis of microcomputer networks, including internetworking and routers, network management, and etc. Th ree hours of lecture per week. Prerequisite: ELET 434.
Prerequisite(s): ELET 434
College/School: Col of Science, Engr & Tech
Department: Department of Engineering

CMET 436 Appl of Microproc Software (3 Credits)
Lecture: 3, **Lab:** 0
Applications of Microprocessor Software (3) Utilization of micro assemblers to write floating point mathematical routines, special purpose languages, generate relocatable code, etc. Two hours of lecture and two hours of laboratory per week. Prerequisites: ELET 343 and MATH 242. Co-requisite: CMET 416.
Prerequisite(s): (ELET 333 and CMET 416)
College/School: Col of Science, Engr & Tech
Department: Department of Engineering

CMET 437 Data Communication Mthds (3 Credits)
Lecture: 3
Data Communication Methods (3) Study of data communication devices and software, their functional and operational aspects, including modems, control units, multiplexers, concentrators, front-end processors, etc. Three hours of lecture per week. Co-requisite: CMET 417.
Prerequisite(s): (CMET 417 (may be taken concurrently) and MATH 345 (may be taken concurrently))
College/School: Col of Science, Engr & Tech
Department: Department of Engineering

CMET 438 Artificial Intelligence (3 Credits)
Lecture: 3, **Lab:** 0
Artificial Intelligence (3) The fundamental principles of artificial intelligence and expert systems are introduced and their application in various areas of science and engineering. Two hours of lecture and two hours of laboratory per week. Prerequisites: ELET 422 and Senior standing.
Prerequisite(s): ELET 422
College/School: Col of Science, Engr & Tech
Department: Department of Engineering

CMET 439 Microcomp Peripheral Hardware (3 Credits)
Lecture: 3, **Lab:** 0
Microcomputer Peripheral Hardware (3) Microprocessor peripheral hardware and its interfacing, configuration and construction, including series and parallel I/O and interrupt control devices, bus arbitration, and memory management units. Two hours of lecture and two hours of laboratory per week. Prerequisite: ELET 343. Co-requisite: CMET 419.
Prerequisite(s): (ELET 333 and CMET 419 (may be taken concurrently))
College/School: Col of Science, Engr & Tech
Department: Department of Engineering

CMET 441 Computer Engr Tech Comp Exam (0 Credits)
Lecture: 0, **Lab:** 0
Computer Engineering Technology Comprehensive Exam (0)
Comprehensive Examination for graduating seniors majoring in Computer
Engineering Technology. Prerequisite: Consent of the Faculty Chair.
College/School: Col of Science, Engr & Tech
Department: Department of Engineering

CMET 470 Java Programming (3 Credits)
Lecture: 3, **Lab:** 0
Java Programming (3) High-level, object-oriented language programming
using JAVA. The course includes inheritance and polymorphism,
implementing, hiding, and the creation of JAVA applets for internet usage.
Two hours of lecture and two hours of laboratory per week. Prerequisites:
ELET 130, ELET 422, and Senior standing.
Prerequisite(s): (ELET 422)
College/School: Col of Science, Engr & Tech
Department: Department of Engineering