

APPLIED TECHNOLOGY (APTC)

APTC 301. INTRODUCTION TO ROUTING AND SWITCHING. 4 Credits.

Notes: this class prepares students to take the following exam(s): Interconnecting Cisco Networking Devices, Part 1 (ICND1).

Pre-requisites: a two year A.A.S or A.A.T Transfer Degree in IT or equivalent or permission of instructor.

This course provides students the knowledge and skills related to network fundamentals, LAN switching technologies, routing technologies, infrastructure services and infrastructure maintenance.

APTC 302. NETWORK SERVER CONFIGURATION. 4 Credits.

Notes: preparation for DCICN and DCICT Cisco exams.

Pre-requisites: APTC 301 ≥C or passing score for Cisco CCENT exam (within three years of the quarter of the class offering.)

This course provides students the knowledge of data center infrastructure, data center networking concepts and data center storage networking. Students will also learn about fundamental data center technologies including unified computing, data center network virtualization, Cisco data center networking technologies, data center automation and orchestration and Application Centric Infrastructure.

APTC 399. DIRECTED STUDY. 1-5 Credits.

Cross-listed: CMTC 399, DNTC 399, MNTC 399, TECH 399.

Pre-requisites: permission of the instructor, department chair and college dean.

Directed Study.

APTC 439. TOPICS IN APPLIED TECHNOLOGY. 6 Credits.

Notes: An authorized elective substitution for APTC 495. This 6 credit course is only offered during the summer quarter.

Pre-requisites: TECH 331, TECH 462: all with grades ≥C, and junior standing.

This course explores topics in applied technology that are beyond the scope of the regular program course curriculum. It allows for a more in-depth coverage through lecture, discussion, research, and explorations of applied technology in the world as students prepare to enter the work force.

APTC 490. SENIOR CAPSTONE: PRODUCTION LAB. 2 Credits.

Cross-listed: TECH 490, CMTC 490, DNTC 490, MNTC 490.

Notes: the course simulates a real world design team concept by utilizing a design group that contains members of different program majors.

Pre-requisites: senior standing. Corequisite: APTC 490L, CMTC 490L, DNTC 490L, MNTC 490L, or TECH 490L.

Satisfies: a university graduation requirement—senior capstone.

Simulates the real world situation that graduates face. Students work in teams to apply techniques of production management, product design/development, plant layout, scheduling, cost accounting, assembly, inspection, and quality control to produce a product. Each student team produces a new product and a final written report to demonstrate how the process and goals of the course have been realized. Companion course to APTC 490L, CMTC 490L, DNTC 490L, MNTC 490L, or TECH 490L.

APTC 490L. SENIOR CAPSTONE: PRODUCTION LAB LAB. 2 Credits.

Cross-listed: TECH 490L, CMTC 490L, DNTC 490L, MNTC 490L.

Pre-requisites: senior standing. Corequisite: APTC 490, CMTC 490, DNTC 490, MNTC 490, or TECH 490.

Companion lab to APTC 490, CMTC 490, DNTC 490, MNTC 490, or TECH 490.

APTC 491. SENIOR PROJECT. 4-6 Credits.

Cross-listed: TECH 491, CMTC 491, DNTC 491, MNTC 491.

Pre-requisites: senior standing.

Independent and/or group study and implementation of a design and development project. (variable time).

APTC 495. INTERNSHIP. 1-15 Credits.

Cross-listed: TECH 495, CMTC 495, DNTC 495, MNTC 495.

Notes: Graded Pass/Fail. This course may be repeated.

Pre-requisites: junior or senior status and permission of the instructor, department chair and dean.

A maximum of 5 credits may be earned toward electives for a Technology major. Students considering electives for a Technology minor should consult with their departmental advisor.

APTC 496. EXPERIMENTAL COURSE. 1-6 Credits.

Cross-listed: TECH 496, CMTC 496, DNTC 496, MNTC 496.

Experimental Course.

APTC 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-6 Credits.

Cross-listed: TECH 497, CMTC 497, DNTC 497, MNTC 497.

Workshop, short course, conference, or seminar.

APTC 498. SEMINAR. 1-6 Credits.

Cross-listed: TECH 498, CMTC 498, DNTC 498, MNTC 498.

Seminar.

APTC 499. DIRECTED STUDY. 1-5 Credits.

Cross-listed: TECH 499, CMTC 499, DNTC 499, MNTC 499.

Pre-requisites: permission of the instructor, department chair and college dean.

Designed for students wanting to pursue a subject beyond the scope of regular courses.