NOTE: Any student found to be taking any course without its prerequisite or co-requisite will be dropped from the course without a refund.
Concentrations

Power / Energy
- EEL 4213 Power Systems I
- EEL 4213L Energy Conversion Laboratory
- EEL 4214 Power II
- EEL 4215 Power III
- EEL 4241 Power Electronics
- EEL 5285C Sustainable and Renewable Energy
Source and Their Utilization

Autonomous Systems, Control & Robotics
- EEL 3657 Control Systems I
- EEL 3664 Intro to Autonomous Systems
- EEL 4421 Control Systems II
- EEL 4611L Systems Lab
- EEL 4658 Industrial Control Systems
- EEL 4664 Sensors, Perception & Robotic Manipulation
- EGN 3311 Statics
- EGN 3321 Dynamics

Integrated Nano-Technology
- EEE 3303 Electronics I (CpE Only)
- EEE 3303L Electronics I Lab (CpE Only)
- EEE 3396 Intro to Solid State Devices
- EEE 4304 Electronics II
- EEE 4304L Electronics II Lab
- EEE 4314 Integrated Circuits & Systems
- EEE 4314L Integrated Circuits Lab
- EEE 4421C Intro to Nanofabrication

Communications
- EEL 3514 Communication Systems
- EEL 3514L Communication Systems Lab
- EEL 4421 Intro to RF Circuit Design
- EEL 4461C Antennas
- EEE 4510 Intro to DSP
- EEE 4515 Advanced Comm. Systems
- EEE 4595C Intro to Wireless Comm. w/ USRP App.

Bio-Engineering
- EEE 3303 Electronics I (CpE Only)
- EEE 3303L Electronics I Lab (CpE Only)
- EEL 4140 Filter Design
- EEE 4421C Intro to Nanofabrication
- BME 4503C Medical Instrumentation: App & Design
- EEE 4510 Intro to Digital Signal Processing

Computer Architecture & Microprocessor Design
- EEE 4343 Intro to Digital Electronics
- EEE 4709C Computer Design (EE Only)
- EEL 4746 Microprocessors I
- EEL 4746L Microprocessors I Lab
- EEL 4747 Microprocessors II (RISC)
- EEL 4747L Microprocessors II (RISC) Lab

Other
- EEL 4015 Electrical Design in Buildings

Embedded System Software
- EEL 3370 C++ Prog. For Embedded Systems (EE Only)
- EEL 4730 Program. Embedded Systems (EE Only)
- EEL 4734 Embedded Operating Systems
- EEL 4740 Embedded Computing (EE Only)
- EEL 4831 Embedded GUI Programming

Networking & Security
- TCN 4081 Telecommunication Network Security
- TCN 4211 Telecommunication Networks
- TCN 4212 Telecomm. Network Analysis & Des.
- TCN 4431 Principles of Network Management and Control Standards
- EEE 4717 Intro to Security of IoT

Cybersecurity
- EEL 4802 Intro to Digital Forensics Engineering
- EEL 4804 Intro Malware Reverse Engineering
- EEL 4806 Ethical Hacking & Countermeasures

Digital Forensics
- EEL 4802 Intro to Digital Forensics Engineering
- EEL 4804 Intro Malware Reverse Engineering
- EEL 4806 Ethical Hacking & Countermeasures
- EEE 4750 Intro to Image & Video Forensics
- EEE 4752 Intro to Network Forensics & Incident Resp.
- EEE 4754 Intro to Mobile Forensics

Artificial Intelligence and Big Data
- CNT 3143 IoT & Analytics w/ Cloud Services
- CNT 4145 Sensor IoT Analytics
- CNT 4147 IoT & Sensor Big Data Analytics
- CNT 4149 Sensor & IoT Data Ana. w/ Deep Learning
- CNT 4151 IoT & Sensor Data Visualization
- CNT 4153 IoT Applied Machine Learning
- CNT 4155 IoT & Sensor Programming w/ Python

Internet of Things
- COP 4610 Operating Systems Principles
- COP 4655 Mobile Application Development
- EEE 4510 Intro to Digital Signal Processing
- EEE 4717 Intro to Security of IoT
- EEL 4740 Embedded Computing (EE Only)
- TCN 4211 Telecommunication Networks

Data System Software
- COT 3100 Discrete Structures (EE Only)
  (Alternative: MAD 2104 – Discrete Math (EE Only))
- COP 2210 Programming I
- COP 3337 Programming II
- COP 3530 Data Structures
- COP 4338 Systems Programming
- COP 4610 Operating Systems Principles
- COP 4655 Mobile Application Development

Entrepreneurship
- EEL 4933 Engineering Entrepreneurship
- EEL 4062 Engineering Business Plan Development
- EEL 4063 Economic Decision-making in Engineering

NOTE: Any student found to be taking any course without its prerequisite or co-requisite will be dropped from the course without a refund.

Fall 2020 Rev 08/30/2020