Concentrations:

- Student must complete 9 credits and 3 courses minimum to have a concentration
- Student must complete 1 concentration
- Electrical Engineering student must complete minimum of 38 concentration credits which cannot be from courses found in ECE Core and Electrical Engineering Program Core
- Computer Engineering student must complete minimum of 34 concentration credits which cannot be from courses found in ECE Core and Computer Engineering Program Core

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

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**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

**Integrated Nano-technology**
- EEE 3303  Electronics I
- EEE 3303L  Electronics I Lab
- EEE 3396  Introduction to Solid State Devices
- EEE 4304  Electronics II
- EEE 4304L  Electronics II Lab
- EEE 4314  Integrated Circuits and Systems
- EEE 4314L  Integrated Circuits Laboratory
- EEE 4421C  Intro to Nanofabrication

**Control Systems**
- EEL 3657  Control Systems I
- EEL 4611  Control Systems II
- EEL 4611L  Systems Lab
- EEL 4658  Industrial Control Systems
- EGN 3311  Statics
- EGN 3321  Dynamics

**Communications**
- EEL 3514  Communication Systems
- EEL 3514L  Communication Lab
- EEL 4421  Introduction to RF Circuit Design
- EEL 4461C  Antennas
- EEL 4510  Intro. DSP
- EEL 4515  Adv. Communication Systems
- EEL 4595C  Intro. to Wireless Digital Comm.

**Bio-Engineering**
- EEE 3303  Electronics I
- EEE 3303L  Electronics I Laboratory
- EEL 4140  Filter Design
- BME4503C  Medical Instrumentation Design
- EEL 4510  Intro. DSP
- EEE 4421C  Intro to Nanofabrication

**Embedded System**
- EEL 3160  Computer Applications in Electrical Engineering
- EEL 4730  Programming Embedded Systems
- EEE 4734  Embedded Operating Systems
- EEL 4740  Embedded Computing
- EEL 4831  Embedded GUI Programming

**Network Forensic & Security**
- TCN 4081  Telecommunication Network Security
- TCN 4211  Telecommunication Networks
- TCN 4212  Telecommunication Network Analysis and Design
- TCN 4431  Principles of Network Management and Control Standards
- EEL 4789  Ethical Hacking & Countermeasures

**Cyber Security**
- EEL 4789  Ethical Hacking & Countermeasures
- EEL 4804  Intro. Malware Reverse Eng.
- EEE 4717  Intro. to Security of IoT

**Computer Arch & Microprocessor Design**
- EEE 4343  Intro. to Digital Electronics
- EEL 4709C  Computer Design
- EEL 4746  Microprocessors I
- EEL 4746L  Microcomputers I Laboratory
- EEL 4747  Microprocessors II (RISC)
- EEL 4747L  Microcomputers II Laboratory

**Data System Software**
- MAD 2104  Discrete Mathematics
- COP 2210  Programming I
- COP 3337  Programming II
- COP 3530  Data Structures
- COP 4338  Computer Programming III
- COP 4604  Unix Programming
- COP 4610  Operating Systems Principles

**Others**
- EEL 4015  Electrical Design in Buildings I
- EEL 4933  Engineering Entrepreneurship

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