Students are required to complete at least 19 credits of general electives (1000-4000 level). Satisfies CIVICS LEARNING (CL) requirement. Students who satisfied their Global Learning requirements through the University Core Curriculum, can replace these courses with any general elective (1000-4000 level).

**Internet of Things Flowchart**

**Other Requirements (Must be completed for graduation):**
- GRW1:_______  GRW2:_______  Foreign Language:_______  9 Summer Credit Hours:_______  UCC:_______  Total Credits: ____ / 120
- GL-F:_______  GL-D:_______  CL:_______

*List of alternative courses can be found: https://acs.fiu.edu/offices-services/advising/university-core-curriculum-updated-6-17-20.pdf*

1 Students w/> 30 transfer credits may be able to substitute ENC 1101 & ENC 1102 with: 1) ENC 2304 and 2) then one of the following: ENC 3213, ENC 3249, ENC 3311 or ENC 3314
2 Students who satisfied their Global Learning requirements through the University Core Curriculum, can replace these courses with any general elective (1000-4000 level).
3 Students are required to complete at least 9 credits of general electives (1000-4000 level).
4 Students are required to complete at least 9 credits of EC/CS electives from the list below.
5 Satisfies CIVICS LEARNING (CL) requirement.
6 Starting in Fall 2010 Freshman and Transfer Students will have to complete 6 credit hours (2 classes) that will satisfy the Global Learning Requirement.

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

Students are required to complete at least 9 credits of EC/CS electives from the list below.

- EEL 3370  C++ Programming for Embedded Systems
- EEL 4734  Embedded Operating Systems
- EEL 4831  Embedded GUI Programming
- TCN 4081  Telecommunication Network Security
- TCN 4212  Telecomm. Network Analysis & Des.
- TCN 4431  Principles of Network Management and Control Standards
- EEL 4806  Ethical Hacking & Countermeasures
- EEL 4802  Intro to Digital Forensics Engineering
- EEL 4804  Intro Malware Reverse Engineering
- EEE 4754  Intro to Mobile Forensics
- EEE 4750  Intro to Image & Video Forensics
- EEE 4752  Intro to Network Forensics & Incident Resp.
- CNT 3153  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
- COP 4610  Operating Systems Principles
- COP 4655  Mobile Application Development
- COT 3100  Discrete Structures
- COP 3337  Programming II
- COP 3530  Data Structures
- COP 4338  Systems Programming

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