Internet of Things Flowchart

Crd	Count					
13		Writing and Rhetoric I [1] ENC 1101	First Year Experience [2] SLS 1501	College Algebra MAC 1105	Elective [3]	Social Science I (Group I – GRW – GL - CL) *Suggested:* AMH 2020 [5] American Historv 1850 to Pr
17	30	Writing and Rhetoric II [1] ENC 1102	Social Science II [0] (Group II) *Suggested:* EGS 1041 Tech, Humans, & Society	Trigonometry MAC 1114	Physics w/o Calculus I & Lab PHY 2053 & PHY 2048L	Intro to IoT TCN 2720
17	47	Humanity I [0] (Group I)	Art (GRW) *Suggested:* COM 3404 Nonverbal Communication	Elective [3]	Physics w/o Calculus II & Lab PHY 2054 & PHY 2049L	Fund. Of Cybersecurity CTS 1120
16	63	Humanity II [0] (Group II) *Suggested:* WOH 2001 World Civilizations	Programming in Java COP 2250	Elective (4 credits) [3]	Intro to Circuit & Electronics EGN 2271	Data Analysis CGS 2518
15	78	Computer Operating Systems CGS 3767	Int. Human Comp Interaction CEN 3721	Microcontrollers for IoT CNT 3142	Intro to Computer Design CDA 3104	EEL 2880 C Program. for Emb. Systems
15	93	Elective [3]	Global Learning Foundations [2] GL-F	Global Learning Discipline [2] GL-D	Sensors for IoT CNT 3122	EEL 4730 Program. Embedded Systems
15	108	Telecommunication Systems TCN 4211	Intro to Wireless Comm for IoT CNT 3162	EC/CS Elective [4] 3XXX – 4XXX	Intro to Security of IoT EEE 4717	EEL 4734 Embedded Op. Systems
12	120	Network Protocols for IoT CNT 4165	EC/CS Elective [4] 3XXX – 4XXX	EC/CS Elective [4] 3XXX – 4XXX		Senior Project TCN 4940

Other Requirements (Must be completed for graduation):

GRW1:_____ GRW2:_____ Foreign Language:_____ 9 Summer Credit Hours:_____ UCC:_____ Total Credits: _____ / 120

GL-F:_____ GL-D:_____ CL: _____

[0] 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 19 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.

*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.

Fall 2022 Rev 11/30/2022

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 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
• CNT 4185	Internet of Things Privacy
• CNT 4188	Internet of Things Forensics
• 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.