

Bachelor of Science in Computer Engineering

2020-2021 Catalog Requirements

engineering-advising@fau.edu • 561.297.2780 • dessa.fau.edu • ceecs.fau.edu

Computer Engineering Electives

12 credits to be chosen from:

- CDA 4102 Structured Computer Arch
- CEN 4400 Intro Cptr Sys Perf Eval
- CDA 4630 Intro to Embedded Systems
- CDA 4210 Intro to VLSI
- CNT 4104 Intro to Data Communications
- CNT 4713 Computer Network Projects
- COP 4633 Mobile App Projects
- CDA 4240C Design of Digital Systems

TECHNICAL ELECTIVES

15 credits to be chosen from upper division courses with significant technical disciplinary content.

Sample list of electives:

- CAP 3786 Intro to Data Science
- CAP 4034 Computer Animation
- CAP 4401 Digital Image Processing
- CAP 4773 Intro Data Science Analytics
- CAP 4630 Intro to Artificial Intelligence
- CAP 4770 Data Mining & Mach Intelligence
- CNT 4403 Intro to Data & Network Security
- COP 3540 Intro to Database Structures
- COP 3813 Intro to Internet Computing
- COP 4814 Web Services
- COP 4020 Programming Languages
- COP 4045 Python Programming
- COP 4331 Object-Oriented Design & Prog.
- COP 4367 Graphical App. Development
- COP 4703 Applied Database Systems
- COP 4854 Cutting Edge Web Tech
- COT 4400 Design & Analysis of Algorithms
- COT 4420 Formal Lang. & Automata Theory
- COT 4930 Special Topics in CS (Title may vary)

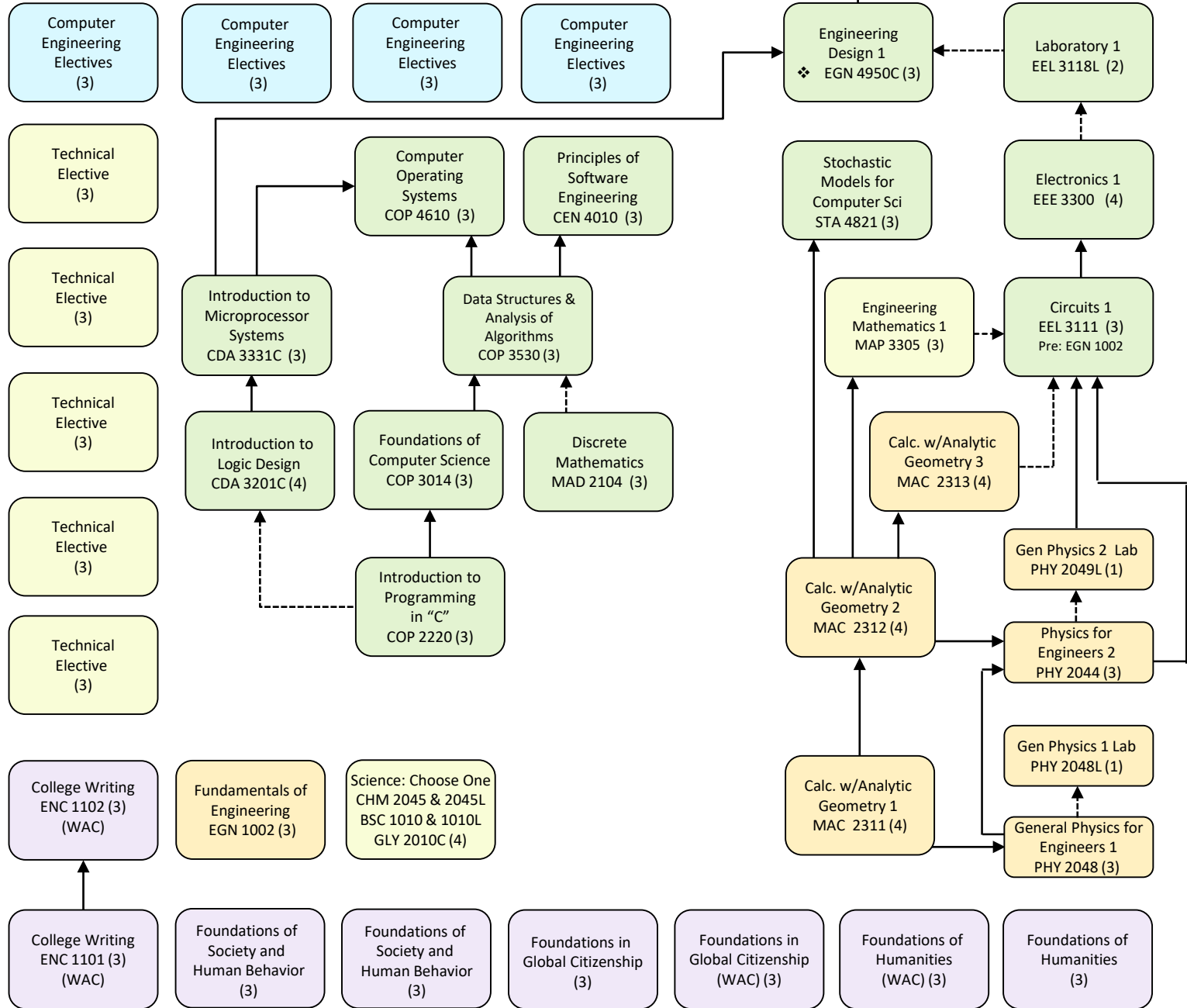
*This list is not all encompassing and courses are subject to change.

Science


Courses intended for science and engineering majors. Please see advisor for approval of any other course(s)

Grade of "C" or better is required in all green, blue, orange, and WAC courses

Please note: Pre/Co-requisites may be illustrated above by lines/arrows and/or within the course requirement boxes. Students are expected to abide by all course pre/co-requisite requirements. Please see the back side of this flowchart for additional information.



❖ Course can only be taken during senior year. The senior project must indicate substantial amount of work in the CSE areas either in a multi-disciplinary / single-discipline project.

Course Number(s)	Pre/Co-Requisite(s)
For more information on the Intellectual Foundation Program (IFP) requirements, visit:	
MAC 2311	Prerequisite: MAC 1147, MAC 2210, OR MAC 1140 & MAC 1114 w/ a C or better
MAC 2312	Prerequisite: MAC 2311 w/ a C or better
MAC 2313	Prerequisite: MAC 2312 w/ a C or better
MAP 3305	Prerequisite: MAC 2312 w/ a C or better
PHY 2048	Prerequisite: MAC 2311 w/ a C or better
PHY 2048L	Corequisite: PHY 2048 w/ a C or better
PHY 2044	Prerequisite: MAC 2312 and PHY 2048 w/ a C or better
PHY 2049L	Corequisite: PHY 2049 or PHY 2044 w/ a C or better
"See advisor for approved courses"	
COP 3014	Prerequisite: COP 2220 w/ a C or better
CDA 3201C	Pre/Corequisite: COP 2220
CDA 3331C	Prerequisite: CDA 3201C & COP 2220 w/ a C or better
COP 2220	None
COP 3530	Prerequisite: COP 3014 w/ a C or better Pre/Corequisite: MAD 2104
COP 4610	Prerequisite: CDA 3331C and COP 3530 (DOES NOT REQUIRE C OR BETTER)
CEN 4010	Prerequisite: COP 3530 (DOES NOT REQUIRE C OR BETTER)
EGN 4950C	Prerequisite: CDA 3331C & Pre/Corequisite: EEE 3300 & 3118L w/ C or better
EGN 4952C	Prerequisite: EGN 4950C w/ a C or better
MAD 2104	Prerequisite: MAC 1105 or higher w/ a C or better
STA 4821	Prerequisite: MAC 2312 (DOES NOT REQUIRE C OR BETTER)
CDA 4102	Prerequisite: CDA 3201C, EEE 3300, or Instructor Permission (DOES NOT REQUIRE C OR BETTER)
CEN 4400	Prerequisite: CDA 3201C, EEE 3300, or Instructor Permission (DOES NOT REQUIRE C OR BETTER)
CDA 4630	Prerequisite: CDA 3331C (DOES NOT REQUIRE C OR BETTER)
CDA 4210	Prerequisite: CDA 3201C (DOES NOT REQUIRE C OR BETTER)
CNT 4104	Prerequisite: COP 3530 and CDA 3331C (DOES NOT REQUIRE C OR BETTER)
CNT 4713	Prerequisite: COP 3530 (DOES NOT REQUIRE C OR BETTER)
COP 4655	Prerequisite: CDA 3331C or COP 3813 w/ C or Better
CDA 4204	Prerequisite: CDA 3201C, Pre/Corequisite: CDA 3331C (DOES NOT REQUIRE C OR BETTER)
CDA 4240C	Prerequisite: CDA 3201C with minimum grade of "C"
EGN 1002	None
EEL 3111	Prerequisite: PHY 2049 & EGN 1002 w/ C or Better Pre/Corequisite: MAC 2313 & MAP 3305
EEE 3300	Prerequisite: EEL 3111 w/ C or Better
EEL 3118L	Pre/Corequisite: EEE 3300
All Technical electives must be approved by the undergraduate advisor. In general, a technical elective is defined as an upper-division course with significant technical disciplinary content.	(As approved by advisor)

OTHER REQUIREMENTS & INFORMATION:

Requirements to Declare Computer Engineering Major: A minimum grade of "C" and in MAC2311 & PHY2048

A Grade of "C" or Better is Required in all orange, green, blue, and WAC courses

At least 124 credits

At least 45 credits in the Upper-Division

At least 31 credits from FAU