COMPUTER ENGINEERING

Computer Engineering (CpE) is a discipline that embodies the science and technology of design, construction, implementation, and maintenance of software and hardware components of computing systems and computer-controlled equipment. Studies in computer engineering integrate fields from both computer science (CS) and electrical engineering (EE).

About this Program

- · College: Herbert Wertheim College of Engineering (http://catalog.ufl.edu/UGRD/colleges-schools/UGENG/)
- Degree: Bachelor of Science in Computer Engineering
- Credits for Degree: 126
- · More Info

To graduate with this major, students must complete all university, college, and major requirements.

Department Information

Electrical engineers study electricity and design electrical systems that solve problems—how to make your smartphones smarter; how to make your refrigerator run more efficiently; coming up with the optimal temperature to heat pizza in your microwave; designing the audio and visual technology that brings movies to life.

Website (https://www.ece.ufl.edu/)

CONTACT

352.392.9758 (tel) | 352.294.0911 (fax)

P.O. Box 116200 968 Center Drive 216 LARSEN HALL GAINESVILLE FL 32611-6200 Map (http://campusmap.ufl.edu/#/index/0722)

Curriculum

- Combination Degrees
- Computer Engineering
- Electrical Engineering
- Electrical Engineering Minor

Computer Engineering (CpE) brings a core competency and unique value of integrated knowledge in both computer software and hardware, providing a balance among computer systems, hardware, and software as well as theory and applications. Specialization in computer engineering is provided via technical electives from the Department of Computer and Information Science and Engineering (www.cise.ufl.edu (http://www.cise.ufl.edu)) and the Department of Electrical and Computer Engineering (www.ece.ufl.edu (http://www.ece.ufl.edu)).

Via elected coursework, students specialize in knowledge areas such as computer architecture, computer system engineering, digital signal processing, embedded systems, intelligent systems, networking and communication, and security. Additionally, cooperative education opportunities help students develop a broader understanding of the industrial applications of computer engineering technologies. Graduates will be prepared to engage in graduate studies in computer engineering or to pursue career paths in many different areas of computing and its applications in high technology environments.

Program Education Objectives

Graduates from the Bachelor of Science in Computer Engineering will:

- 1. Advance in careers utilizing their education in computer engineering;
- 2. Continue to enhance their knowledge through graduate or professional studies, self-learning, and on-job training;
- 3. Become leaders in multidisciplinary and diverse professional environments.

Mission

- To educate undergraduate majors as well as the broader campus community in the fundamental concepts of the computing discipline
- To create and disseminate computing knowledge and technology
- To use expertise in computing to help society solve problems.

Transfer Admission Requirements

Successful transfer applicants must have earned a 2.5 grade point average, based on the first two attempts, in the seven preprofessional courses and have earned a minimum grade of C in each course of Calculus 1, Calculus 2, Calculus 3, Physics with Calculus 1, Physics with Calculus 2, General Chemistry 1, and Differential Equations. Only the first two attempts (including withdrawals) in each course will be considered for admission to or retention in the department.

Transfer students must attend Transfer Preview as part of admissions. Course equivalency appeals must be submitted to earn credit for coursework completed outside of Common Course Numbering for Core CpE coursework and will be reviewed on a case by case basis.

Computer Engineering Requirements

A minimum grade of C is required for each critical-tracking course and the critical-tracking GPA must be a minimum of 2.5.

A minimum grade of C is required in any computer engineering course that is a prerequisite for another computer engineering course and CpE Design 2 CEN 3908C. The prerequisite course and its subsequent course cannot be taken the same term, even if the prerequisite course is being repeated.

Minimum grades of C are required in:

Code	Title	Credits	
CDA 3101	Introduction to Computer Organization	3	
CEN 3031	Introduction to Software Engineering	3	
COP 3502C	Programming Fundamentals 1	4	
COP 3503C	Programming Fundamentals 2		
COP 3504C	P 3504C Advanced Programming Fundamentals for CIS Majors		
COP 3530	Data Structures and Algorithm	3	
COT 3100	Applications of Discrete Structures	3	
EEL 3701C	4		
EEL 4744C	Microprocessor Applications	4	
ENC 3246	ENC 3246 Professional Communication for Engineers		
CpE Design 1			
Select one:		3	
CEN 3907C	Computer Engineering Design 1		
EGN 4951	Integrated Product and Process Design 1		
CpE Design 2			
Select one:		3	
CEN 3908C	Computer Engineering Design 2		
EGN 4952	Integrated Product and Process Design 2		

Students may opt to take COP 3504C in lieu of COP 3502C and COP 3503C. If elected, students will need to complete an additional 4 credits to complete the degree program.

A CpE major grade point average (GPA) is calculated as the average of the grades of all CpE program courses and the CISE and ECE department courses taken by the student. CpE students must maintain a cumulative, college, upper-division and CpE major GPA minimum of 2.0.

All graduating seniors must complete an exit survey with their advisor before graduating.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (https://cpm.flvc.org/advance-search/) may be used for transfer students.

Semester 1

- Complete 1 of 6 critical-tracking courses with a minimum grade of C within two attempts: MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049
- · 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- · Complete 2 additional critical-tracking courses with a minimum grade of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- · Complete 1 additional critical-tracking course with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- · Complete 1 additional critical-tracking course with minimum grades of C within two attempts
- 2.5 GPA required for all 7 critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete EEL 4744C with a minimum grade of C
- · Complete all critical-tracking course with minimum grades of C within two attempts
- 2.5 GPA required for all 7 critical-tracking courses
- 2.0 UF GPA required

Semester 6

- · 2.0 departmental GPA required
- 2.0 UF GPA required

Semester 7

- 2.0 departmental GPA required
- 2.0 UF GPA required

Semester 8

- 2.0 departmental GPA required
- 2.0 UF GPA required

Model Semester Plan

Students are expected to complete the General Education International (GE-N) and Diversity (GE-D) requirements. This is often done concurrently with another general education requirement, typically GE-C, H, or S.

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title		
Semester One			
Quest 1 (Gen Ed Humanities)		3	
COP 3502C	Programming Fundamentals 1		
EGN 2020C	Engineering Design & Society		
Analytic Geometry and Calculus 1 (Critical Tracking; State Core Gen Ed Mathematics)		4	
	Credits	13	
Semester Two			
COP 3503C	P 3503C Programming Fundamentals 2		
COT 3100	Applications of Discrete Structures		
MAC 2312	Analytic Geometry and Calculus 2 (Critical Tracking; State Core Gen Ed Mathematics)		
PHY 2048	Physics with Calculus 1 (Critical Tracking; Gen Ed Physical Sciences)	3	
	Credits	14	

	Digital Logic and Computer Systems		
	n (Writing requirement, 6,000 words)		
State Core Social and Behavior	al Sciences (Writing requirement)		
· · •	Credits	1	
Semester Three	aviaral Saianaaa with Divarativ Writing Deguirement)		
	navioral Sciences with Diversity; Writing Requirement)		
CDA 3101	Introduction to Computer Organization		
COP 3530 MAC 2313	Data Structures and Algorithm Analytic Coometry and Calculus 2 (Critical Tracking : Con Ed Mathematics)		
PHY 2049	Analytic Geometry and Calculus 3 (Critical Tracking ; Gen Ed Mathematics) Physics with Calculus 2 (Critical Tracking ; Gen Ed Physical Sciences)		
PHT 2049	Credits	1	
Semester Four	oreans		
CEN 3031	Introduction to Software Engineering (Critical Tracking)		
EEL 4744C	Microprocessor Applications (Critical Tracking)		
MAP 2302	Elementary Differential Equations (Critical Tracking)		
MAS 3114	Computational Linear Algebra		
	Credits	1	
Semester Five			
COP 4600	Operating Systems		
EEL 3111C	Circuits 1		
EEL 4712C	Digital Design (Critical Tracking)		
STA 3032	Engineering Statistics		
Enrichment elective; Writing Re	equirement		
	Credits	1	
Semester Six			
ENC 3246	Professional Communication for Engineers (State Core Gen Ed Composition (http://		
	catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext); Writing		
	Requirement: 6,000 words)		
State Core Humanities with Inte	ernational or Writing Requirement		
Enrichment elective			
Enrichment elective Technical electives			
Technical electives	Credits		
Technical electives Semester Seven		1	
Technical electives Semester Seven Select one CpE Design 1 course	e:	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C	e: Computer Engineering Design 1	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951	e: Computer Engineering Design 1 Integrated Product and Process Design 1	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course:	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L BSC 2005	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory Biological Sciences	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L BSC 2005 & 2005L	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory Biological Sciences and Laboratory in Biological Sciences	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L BSC 2005 & 2005L BSC 2010	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory Biological Sciences and Laboratory in Biological Sciences Integrated Principles of Biology 1	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L BSC 2005 & 2005L BSC 2010 & 2010L	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory Biological Sciences and Laboratory in Biological Sciences Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1	1	
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Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L BSC 2005 & 2005L BSC 2010 & 2010L CHM 2045 & 2045L	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory Biological Sciences and Laboratory in Biological Sciences Integrated Principles of Biology 1 and Integrated Principles of Biology 1 General Chemistry 1 and General Chemistry 1 Laboratory	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L BSC 2005 & 2005L BSC 2010 & 2010L CHM 2045 & 2045L CHM 2095	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory Biological Sciences and Laboratory in Biological Sciences Integrated Principles of Biology 1 and Integrated Principles of Biology 1 General Chemistry 1 and General Chemistry 1 Chemistry for Engineers 1	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L BSC 2005 & 2005L BSC 2010 & 2010L CHM 2045 & 2045L CHM 2095 & CHM 2045L	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory Biological Sciences and Laboratory in Biological Sciences Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 General Chemistry 1 and General Chemistry 1 Laboratory Chemistry for Engineers 1 and General Chemistry 1 Laboratory	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L BSC 2005 & 2005L BSC 2010 & 2010L CHM 2045 & 2045L CHM 2095 & CHM 2045L GLY 2010C	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory Biological Sciences and Laboratory in Biological Sciences Integrated Principles of Biology 1 and Integrated Principles of Biology 1 General Chemistry 1 and General Chemistry 1 Chemistry for Engineers 1	1	
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Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L BSC 2005 & 2005L BSC 2010 & 2010L CHM 2045 & 2045L CHM 2045 & CHM 2045L GLY 2010C Enrichment elective	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory Biological Sciences and Laboratory in Biological Sciences Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 General Chemistry 1 and General Chemistry 1 Laboratory Chemistry for Engineers 1 and General Chemistry 1 Laboratory Physical Geology	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L BSC 2005 & 2005L BSC 2010 & 2010L CHM 2045L & 2045L CHM 2045L GLY 2010C Enrichment elective Technical electives	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory Biological Sciences and Laboratory in Biological Sciences Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 General Chemistry 1 and General Chemistry 1 Laboratory Chemistry for Engineers 1 and General Chemistry 1 Laboratory	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L BSC 2005 & 2005L BSC 2010 & 2010L CHM 2045L QU45L CHM 2045L GLY 2010C Enrichment elective Technical electives Semester Eight	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory Biological Sciences and Laboratory in Biological Sciences Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 General Chemistry 1 and General Chemistry 1 Astronomy Laboratory Chemistry for Engineers 1 and General Chemistry 1 Laboratory Physical Geology	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L BSC 2005 & 2005L BSC 2010 & 2010L CHM 2045L QU45L CHM 2045L GLY 2010C Enrichment elective Technical electives Semester Eight	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory Biological Sciences and Laboratory in Biological Sciences Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 General Chemistry 1 and General Chemistry 1 Chemistry for Engineers 1 and General Chemistry 1 Laboratory Physical Geology Credits	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L BSC 2005 & 2005L BSC 2010 & 2010L CHM 2045L & 2045L CHM 2045L GLY 2010C Enrichment elective Technical electives Semester Eight Select one CpE Design 2 course	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory Biological Sciences and Laboratory in Biological Sciences Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 General Chemistry 1 and General Chemistry 1 Laboratory Chemistry for Engineers 1 and General Chemistry 1 Laboratory Physical Geology Credits e: Computer Engineering Design 2 (Critical Tracking)	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L BSC 2005 & 2005L BSC 2010 & 2010L CHM 2045L QLY 2010C Enrichment elective Technical electives Semester Eight Select one CpE Design 2 course CEN 3908C EGN 4952	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory Biological Sciences and Laboratory in Biological Sciences Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 General Chemistry 1 and General Chemistry 1 Laboratory Chemistry for Engineers 1 and General Chemistry 1 Laboratory Physical Geology Credits e: Computer Engineering Design 2 (Critical Tracking) Integrated Product and Process Design 2 (Critical Tracking)	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L BSC 2005 & 2005L BSC 2010 & 2010L CHM 2045 & 2045L CHM 2045L GLY 2010C Enrichment elective Technical electives Semester Eight Select one CpE Design 2 course CEN 3908C EGN 4952 EEL 3135	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory Biological Sciences and Laboratory in Biological Sciences Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 General Chemistry 1 and General Chemistry 1 and General Chemistry 1 Astronomy Laboratory Chemistry for Engineers 1 and General Chemistry 1 Laboratory Physical Geology Credits e: Computer Engineering Design 2 (Critical Tracking) Integrated Product and Process Design 2 (Critical Tracking) Introduction to Signals and Systems	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L BSC 2005 & 2005L BSC 2010 & 2010L CHM 2045L QU45L CHM 2045L GLY 2010C Enrichment elective Technical electives Semester Eight Select one CpE Design 2 course CEN 3908C EGN 4952 EEL 3135 EGS 4034	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory Biological Sciences and Laboratory in Biological Sciences Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 General Chemistry 1 and General Chemistry 1 Laboratory Chemistry for Engineers 1 and General Chemistry 1 Laboratory Physical Geology Credits e: Computer Engineering Design 2 (Critical Tracking) Integrated Product and Process Design 2 (Critical Tracking)	1	
Technical electives Semester Seven Select one CpE Design 1 course CEN 3907C EGN 4951 Select one Gen Ed Physical and AST 3018 & AST 1022L BSC 2005 & 2005L BSC 2010 & 2010L CHM 2045L QU45L CHM 2045L GLY 2010C Enrichment elective Technical electives Semester Eight Select one CpE Design 2 course CEN 3908C	e: Computer Engineering Design 1 Integrated Product and Process Design 1 d Biological Sciences course: Astronomy and Astrophysics 1 and Astronomy Laboratory Biological Sciences and Laboratory in Biological Sciences Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 General Chemistry 1 and General Chemistry 1 and General Chemistry 1 Astronomy Laboratory Chemistry for Engineers 1 and General Chemistry 1 Laboratory Physical Geology Credits e: Computer Engineering Design 2 (Critical Tracking) Integrated Product and Process Design 2 (Critical Tracking) Introduction to Signals and Systems		

Technical Electives

At least 12 technical elective credits must be from the CISE and/or ECE department(s).

Qualifying technical electives include, unless otherwise excluded:

- 4000-level or higher CpE program courses
- 4000-level or higher CISE courses
- 3000-level CAP prefix CISE courses
- · 3000-level or higher ECE courses
- · 4000-level or higher Mathematics Dept. courses
- 3000-level or higher Physics Dept. courses
- · 4000-level or higher Statistics Dept. courses
- · Other courses approved by program coordinator

The following courses do not qualify as technical electives (i.e., are excluded):

- Required courses
- EEL 3000, EEL 3003, EEL 3834, EEL 3872

Students should check prerequisites when planning their major electives. Students should discuss electives with an advisor in the department. Individual study, co-op, internship, research, and special topics credits must be approved.

Academic Learning Compact

The Bachelor of Science in Computer Engineering is concerned with the theory, design, development and application of computer systems and information processing techniques. Students will be equally proficient working with computer systems, hardware and software, as with computer theory and applications.

The Computer Engineering BS Program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org (https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.abet.org%2F&data=05%7C01%7CDMAYH%40eng.ufl.edu %7C71f1da0d2bb2405acf0908db1519ea82%7C0d4da0f84a314d76ace60a62331e1b84%7C0%7C0%7C638126973271573797%7CUnknown %7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C %7C&sdata=Dc6bpEcUU8fM3vMsOTj6pGPQgyLzoSeoS8v2s%2BFVnBE%3D&reserved=0), under the General Criteria and the Program Criteria for Electrical, Computer, Communications, Telecommunication(s) and Similarly Named Engineering Programs.

Before Graduating Students Must

- · Pass assessment according to department rubric of student performance on a major design experience.
- · Pass assessment in one or more core courses of individual assignments targeted to each SLO.
- · Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major Will Learn to

Student Learning Outcomes | SLOs

Content

- 1. Apply knowledge of mathematics and science to computer engineering problems.
- 2. Design and conduct computer-engineering experiments, analyzing and interpreting the data.

Critical Thinking

3. Design a computer engineering system, component or process to meet desired needs within realistic economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability constraints.

Communication

4. Communicate technical data and design information effectively in writing and in speech to other computer scientists and engineers.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
CEN 3031				I, A
CEN 3908C	A	А	А	А
EEL 3135	I, A	I, A		
EEL 3701C			1	

Assessment Types

• Assignments

• Exams

Reports

• Exit survey