



Student ID: STUDENT ID
Student Name: Student Name

Academic Program: Computer Engineering
Academic Plan: Computer Engineering
Requirement Term: Fall Semester 2023-24

Course	Grade	Prerequisites
1) General Education (A & B) (9 Courses - 27 Credits)		
A- CORE (6 Courses - 18 Credits)		
I. Writing Courses: 3 Courses - 9 Credits		
ENGL 100-Academic English I	*	GEPT / TOEFL Score / ENGL 098
ENGL 110-English Composition I	*	GEPT / TOEFL Score / ENGL 100
ENGL 112-English Composition II	*	GEPT / TOEFL Score / ENGL 110
II. Communication: 1 Course - 3 Credits		
MCM 102-Introduction to Public Speaking.	*	ENGL 100 / 110 / 112
III. Technical Writing: 1 Course - 3 Credits		
ENGL 202-Technical Writing	*	ENGL 112 & COE
IV. Arab Heritage & Cultural Diversity: 1 Course - 3 Credits		
Arab Heritage offering		
B- EXPLORE (4 Courses - 12 Credits)		
I. Social Sciences : 2 Courses - 6 Credits		
ECON 101-Principles of Microeconomics	*	MATH 111 or MATH 098
SBS offering		
II. Humanities & Fine Arts: 1 Courses - 3 Credits		
Humanities & Fine Arts offering		

2) Mathematics & Natural Science (13 Courses - 31 Credits)		
Must Complete all		
CHEM 110-General Chemistry I	ELG-2301	ENGL 098 & (CHEM 110L coreq) & (CS or COE)
PHYS 110-Physics I	*	(MATH 098 / GMPT Score) & PHYS 110L & (CS
CHEM 110L-General Chemistry I Laboratory	*	CHEM 110 coreq
PHYS 110L-Physics I Lab	*	PHYS 110 coreq
PHYS 112-Physics II	*	PHYS 112L coreq & 110&110L & MATH 131 or
PHYS 112L-PHYS II Lab	*	PHYS 112 coreq
CHEM 115L-Introduction to Laboratory Safety and	*	CHEM 110L & Passed ENGL Founda
MATH 131-Analytic Geometry and Calculus I	*	MATH 098 GMPT score
MATH 132-Analytic Geometry & Calculus II	*	MATH 131
MATH 140-Elementary Linear Algebra	*	MATH 098 or 130 or GMPT Score
MATH 221-Applied Statistics	*	MATH 131
MATH 231-Analytic Geometry & Calculus III	*	MATH 132
MATH 232-Introduction to Differential Equations	*	MATH 132

3) Engineering Breadth Courses (6 Courses - 14 Credits)		
Must Complete all		
ENGG 101-Study & Careers in Engineering	ELG-2301	ENGL 098 / 100/ 110/ 112
ENGG 102-Engineering Design with Computer Applications	*	ENGG 101
CSC 122-Computational Problem Solving	ELG-2301	ENGL 098/100/110/112 & (CS or COE Majors)
CSC 125-Object Oriented Programming I	*	CSC 122
ELEN 251-Circuits I	*	MATH 132 & ELEN 251L coreq
ELEN 251L-Circuits Analysis Lab I	*	ELEN 251 coreq

Course	Grade	Prerequisites
4) Major Required Courses (21 Courses - 47 Credits)		
Must Complete all		
COEN 419-Digital Network Design	*	COEN 313 & MATH 221
COEN 419L-Digital Network Design Lab	*	COEN 419 coreq
ELEN 221-Introduction to Electronic Devices	*	ELEN 251 & 251L & 221L coreq & PHYS 112
ELEN 221L-Introduction to Electronic Devices Lab	*	ELEN 251 & 251L & PHYS112
COEN 225-Programming and Data Structures	*	CSC 125
COEN 230-Digital Systems	*	CSC 125
COEN 230L-Digital Systems Lab	*	COEN 230 pre/co
COEN 240-Discrete Structures	*	CSC 125 & (MATH 131 or 140)
ELEN 253-Circuits II	*	ELEN 251 & MATH 231
COEN 313-Introduction to Micro controllers and Embedded	*	COEN 240 & CSC 125 >= C grade
COEN 313L-Digital Engineering Lab II	*	COEN 313 coreq
COEN 341-Digital Signal Processing	*	COEN 230
COEN 341L-Digital Signal Processing Lab	*	COEN 341 coreq
COEN 370-Computer Systems: Architecture and Organization	*	COEN 230
COEN 376-Operating Systems	*	COEN 370
COEN 390-Computer Engineering Internship	*	Junior Standing & UECOM
COEN 475-Fault-Tolerant Digital Systems	*	COEN 230
COEN 485-Computer Vision	*	COEN 341
COEN 485L-Computer Vision Lab	*	COEN 485 coreq
COEN 491-Senior Project I	*	(ENGL 112 202) & ELEN 221, 313, 313L, 370 &
COEN 492-Senior Project II	*	COEN 491

5) Major Elective Courses (3 Courses - 9 Credits) (A&B&C)		
A- Elective A 1 Course - 3 Credits		
Any course COEN 4## offering		
B- Elective B 1 Course - 3 Credits		
Any course COEN 4##, ELEN 4## offering		
C- Elective C 1 Courses - 3 Credits		
COEN 410-Software Testing & Quality Assurance	*	COEN 486
COEN 420-Software Maintenance & Re-engineering	*	COEN 486
COEN 430-Artificial Intelligence	*	COEN 240
COEN 444-Digital Image Processing	*	COEN 341
COEN 477-Security in Computing	*	Senior Standing & UECOM
COEN 480-Machine Learning	*	COEN 240
COEN 481-Mobile Robots	*	COEN 313 & 475
COEN 482-Deep Learning	*	COEN 480
COEN 486-Software Engineering	*	COEN 225

GEPT: GUST English Placement Test
GMPT: GUST Math Placement Test
coreq: Pre-requisite or Co-Requisite

ELG-[Term Code]: Student eligibility to enroll



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Course	Grade	Prerequisites	Course	Grade	Prerequisites
Any course from COEN 3##, 4##, ELEN 4##					

	UNITS	COURSES
University Requirements	128	52
Earned Credits	0	0
Transferred Credits	0	0
Satisfactory Credits	0	0
Total Credits	0	0
Needed	128	52

General Education Requirements

Students are required to complete 30 credits of General Education Requirements.
18 credits from the CORE & 12 credits from EXPLORE area.

1. CORE Writing Offering

Students placed in advance level of English can substitute ENGL 100/110 with:
any advance ENGL or MCM course.

2. Arab Heritage & Cultural Diversity Offerings

Any of the following courses:
ARAB 101, 210, 211, FREN 380, GRMN 380, SPAN 380, WCCS 382, WCCS 383

3. Social Sciences Offering

Any course with code ANTH, ECON, GEOG, HIST, MCM, POLI, PSYC, SOC.

4. Humanities & Fine Arts Offering

Any course with code ARAB, ART, CHIN, ENGL, FREN, GRMN, HIST, MUSC, PHIL, SPAN, THTR, ISTD.