



**Student ID:** STUDENT ID  
**Student Name:** Student Name

**Academic Program:** Computer Engineering  
**Academic Plan:** Computer Engineering  
**Requirement Term:** Fall Semester 2025-26

Course	Grade	Prerequisites
<b>1) General Education (A &amp; B) ( 9 Courses - 27 Credits)</b>		
<b>A- CORE (6 Courses - 18 Credits)</b>		
<b>I. Writing Courses: 3 Courses - 9 Credits</b>		
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
<b>II. Communication: 1 Course - 3 Credits</b>		
MCM 102-Introduction to Public Speaking.	*	ENGL 100 / 110 / 112
<b>III. Technical Writing: 1 Course - 3 Credits</b>		
ENGL 202-Technical Writing	*	ENGL 112 & CEA
<b>IV. Arab Heritage &amp; Cultural Diversity: 1 Course - 3 Credits</b>		
Arab Heritage offering		
<b>B- EXPLORE (3 Courses - 12 Credits)</b>		
<b>I. Social Sciences : 2 Courses - 6 Credits</b>		
ECON 101-Principles of Microeconomics	*	MATH 098   111   131
SBS offering		
<b>II. Humanities &amp; Fine Arts: 1 Courses - 3 Credits</b>		
Humanities & Fine Arts offering		

<b>2) Mathematics &amp; Natural Science (13 Courses - 31 Credits)</b>		
<b>Must Complete all</b>		
CHEM 110-General Chemistry I	ELG-2502	ENGL 098 & (CHEM 110L coreq) & (CS or CEA)
PHYS 110-Physics I	*	(MATH098 / GMPT Score) & PHYS110L & (CS   CEA)
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 & MATH131 & CEA
PHYS 112L-PHYS II Lab	*	PHYS 112 coreq
CHEM 115L-Introduction to Laboratory Safety and	*	CHEM 110L coreq & CEA
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

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

<b>3) Engineering Breadth Courses ( 6 Courses - 14 Credits)</b>		
<b>Must Complete all</b>		
ENGG 101-Study & Careers in Engineering	ELG-2502	ENGL 098 / 100/ 110/ 112
ENGG 102-Engineering Design with Computer Applications	*	ENGG 101
CSC 122-Computational Problem Solving	ELG-2502	ENGL 098/100/110/112 & (CS   CEA)
CSC 125-Object Oriented Programming I	*	CSC 122
ELEN 251-Circuits I	*	PHYS 112 & 112L & MATH 132 & ELEN 251L coreq
ELEN 251L-Circuits Lab I	*	PHYS 112 & 112L & MATH 132 & ELEN 251 coreq

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

<b>5) Major Elective Courses ( 3 Courses - 9 Credits) (A&amp;B&amp;C)</b>		
<b>A- Elective A 1 Course - 3 Credits</b>		
Any course COEN 4## offering		
<b>B- Elective B 1 Course - 3 Credits</b>		
Any course COEN 4##, ELEN 4## offering		
<b>C- Elective C 1 Courses - 3 Credits</b>		
COEN 410-Software Testing & Quality Assurance	*	COEN 486
COEN 420-Software Maintenance & Re-engineering	*	COEN 240
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 & 313L
COEN 482-Deep Learning	*	COEN 480
COEN 486-Software Engineering	*	COEN 225



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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.



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

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