



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

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

Course	Grade	Prerequisites
<b>1) General Education (A &amp; B) (8 Courses - 24 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 (2 Courses - 6 Credits)</b>		
<b>I. Social Sciences : 1 Courses - 3 Credits</b>		
ECON 101-Principles of Microeconomics	*	MATH 098   111   131
<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
<b>3) Engineering Breadth Courses (7 Courses - 17 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
ENGG 105-Engineering Mechanics - Statics	*	PHYS 110 & 110L MATH 231 coreq
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

Course	Grade	Prerequisites
ELEN 251L-Circuits Lab I	*	PHYS 112 & 112L & MATH 132 & ELEN 251 coreq
<b>4) Major Required Courses (23 Courses - 47 Credits) (A&amp;B&amp;C)</b>		
<b>A- 21 Courses - 43 Credits</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 230-Digital Systems	*	CSC 125 & Engineering Major
COEN 230L-Digital Systems Lab	*	COEN 230 coreq
ELEN 253-Circuits II	*	ELEN 251 & MATH 231
ELEN 331-Linear Control Systems	*	ELEN 253 & MATH 232 & ELEN 331L coreq
ELEN 331L-Linear Control Systems Lab	*	ELEN 253 & 331 coreq & MATH 232
ELEN 332-Introduction to Robotics	*	ELEN 331 & 331L & 332L coreq
ELEN 332L-Introduction to Robotics Lab	*	ELEN 331 & 331L & 332 coreq
ELEN 343-Digital Communication I	*	ELEN 253 & 343L coreq
ELEN 343L-Digital Communication I Lab	*	ELEN 253 & 343 coreq
ELEN 353-Electronics I	*	ELEN221, 221L, 253 & ELEN 353L coreq
ELEN 353L-Electronics I Lab	*	ELEN 221& 221L& 353 coreq
ELEN 371-Electromagnetics	*	ELEN 253 & MATH 232
ELEN 390-Electrical Engineering Internship	*	Senior Standing & Electrical Engineering
ELEN 404-Renewable and Sustainable Energy Systems	*	ELEN 353 & 353L & 404L coreq
ELEN 404L-Renewable and Sustainable Energy Systems Lab	*	ELEN 353 & 353L & 404 coreq
ELEN 471-Antenna and Microwave Engineering	*	ELEN 371 & 471L coreq
ELEN 471L-Antenna and Microwave Engineering Lab	*	ELEN 471 coreq
ELEN 491-Senior Project I	*	any 3 crse ELEN 331,341,343,353,371 & ELEN 491
ELEN 492-Senior Project II	*	ELEN 491
<b>B- Power Elective - 1 Course - 3 Credits</b>		
ELEN 311-Electromechanics	*	ELEN 253 & ELEN 311L coreq
ELEN 312-Power Systems Design and Analysis	*	ELEN 253 & ELEN 312L coreq
<b>C- Power Elective Lab - 1 Course - 1 Credits</b>		
ELEN 311L-Electromechanics Lab	*	ELEN 311 coreq
ELEN 312L-Power Systems Design Lab	*	ELEN 312 coreq
<b>5) Major Elective Courses (3 Courses - 9 Credits) (A&amp;B&amp;C)</b>		
<b>A- 1 Courses - 3 Credits</b>		
ELEN 311-Electromechanics	*	ELEN 253 & ELEN 311L coreq
ELEN 312-Power Systems Design and Analysis	*	ELEN 253 & ELEN 312L coreq
ELEN 334-Basic Programmable Logic Controllers	*	ELEN 331
ELEN 341-Digital Signal Processing	*	ELEN 253

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

GMPT: GUST Math Placement Test

ELG-[Term Code]: Student eligibility to enroll



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<b>B- 1 Courses - 3 Credits</b>	<b>Grade</b>	<b>Prerequisites</b>	<b>Course</b>	<b>Grade</b>	<b>Prerequisites</b>
ELEN 431-Digital Control	*	ELEN 331 & 331L			
ELEN 434-Advanced PLC	*	ELEN 334 & Senior Standing			
ELEN 443-Digital Communication II	*	ELEN 343 & 343L			
ELEN 445-Wireless Networks	*	ELEN 343 & 343L			
ELEN 452-Power Electronics	*	ELEN 353 & Senior Standing			
ELEN 454-Power Systems Engineering	*	ELEN 312 & Senior Standing			
<b>C- 1 Courses - 3 Credits</b>					
COEN 3##/4## approved by Dept offering					

	<b>UNITS</b>	<b>COURSES</b>
University Requirements	128	54
Earned Credits	0	0
Transferred Credits	0	0
Satisfactory Credits	0	0
Total Credits	0	0
Needed	128	54

**General Education Requirements**

Students are required to complete 24 credits of General Education Requirements. 18 credits from the CORE & 6 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
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