

Electrical Engineering – Calculus I

2023-2024 Catalog: Sample Four-Year Schedule

	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
Year One	MATH 1710	Calculus I <i>Pre-req: MATH 1650 or Test Placement</i>	4	F., Sp., Su.	MATH 1720	Calculus II <i>Pre-req: MATH 1710</i>	3	F., Sp., Su.
	CHEM 1410	General Chemistry I <i>Pre-req: MATH 1100 or higher</i>	3	F., Sp., Su.	PHYS 1710	Mechanics <i>Pre-req: MATH 1710</i>	3	F., Sp., Su.
	CHEM 1430	General Chemistry I Lab <i>Co/Pre-req: CHEM 1410</i>	1	F., Sp., Su.	PHYS 1730	Mechanics Lab <i>Co/Pre-req: PHYS 1710</i>	1	F., Sp., Su.
	EENG 1910	Intro to Electrical Engineering	3	F., Sp.	EENG 2710	Digital Logic Design	3	F., Sp., Su.
	CSCE 1030	Computer Science I <i>Pre-req: MATH 1650 or Co-req: MATH 1710</i>	4	F., Sp., Su.	EENG 2711	Digital Logic Design Lab <i>Co/Pre-req: EENG 2710</i>	1	F., Sp., Su.
	Comm. Core	University Core – Communication	3	F., Sp., Su.	TECM 2700	Technical Writing <i>Pre-req: Communication Core</i>	3	F., Sp., Su.
	Total Hours		18		University Core	University Core – American History I	3	F., Sp., Su.
					Total Hours		17	

Year Two	MATH 2700	Linear Algebra <i>Pre-req: MATH 1720</i>	3	F., Sp., Su.	MATH 2730	Multivariable Calculus <i>Pre-req: MATH 1720</i>	3	F., Sp., Su.
	MATH 3410	Differential Equations <i>Pre-req: MATH 1720</i>	3	F., Sp., Su.	EENG 2620	Signals and Systems <i>Pre-reqs: EENG 2610/2611 Co/Pre-req: MATH 2730 or 3410</i>	3	F., Sp.
	PHYS 2220	Electricity & Magnetism <i>Pre-reqs: MATH 1720 & PHYS 1710/1730</i>	3	F., Sp., Su.	EENG 2621	Signals and Systems Lab <i>Co/Pre-req: EENG 2620</i>	1	F., Sp.
	PHYS 2240	Electricity & Magnetism Lab <i>Co/Pre-req: PHYS 2220</i>	1	F., Sp., Su.	EENG 2920	Analog Circuit Design <i>Pre-reqs: EENG 1910, EENG 2610/2611, and EENG 2710/2711</i>	3	F., Sp.
	EENG 2610	Circuit Analysis <i>Co/Pre-reqs: PHYS 2220/2240, MATH 3410</i>	3	F., Sp., Su.	EENG 2905	Engineering Tools <i>Pre-reqs: CSCE 1030</i>	3	F., Sp.
	EENG 2611	Circuit Analysis Lab <i>Co/Pre-reqs: EENG 2610</i>	1	F., Sp., Su.	University Core	University Core – American History II	3	F., Sp., Su.
	Total Hours		14		Total Hours		16	

Year Three	MATH 3180	Probability for Engineers <i>Pre-reqs: MATH 2700 and MATH 2730</i>	3	F., Sp., Su.	EENG 3520	Electronics II <i>Pre-reqs: EENG 3510/3511</i>	3	F., Sp.
	EENG 3410	Electromagnetics <i>Pre-reqs: EENG 2610/2611</i>	3	F., Sp.	EENG 3710	Computer Organization <i>Pre-reqs: EENG 2710/2711, CSCE 1030</i>	3	F., Sp.
	EENG 3411	Electromagnetics Lab <i>Co/Pre-req: EENG 3410</i>	1	F., Sp.	EENG 3810	Communications Systems <i>Pre-reqs: EENG 2620, 3510, MATH 3180</i>	3	F., Sp.
	EENG 3510	Electronics I <i>Pre-reqs: EENG 2610/2611</i>	3	F., Sp., Su.	EENG 3811	Communications Systems Lab <i>Co/Pre-req: EENG 3810</i>	1	F., Sp.
	EENG 3511	Electronics I Lab <i>Co/Pre-req: EENG 3510</i>	1	F., Sp., Su.	EENG 3920	Modern Communications System Design <i>Pre-req: EENG 2920 Co/Pre-req: EENG 3520, 3810, 2811</i>	3	F., Sp.
	EENG 3910	Embedded System Design Project <i>Pre-reqs: EENG 2620/2621 and EENG 2920</i>	3	F., Sp.	University Core	University Core – State Government	3	F., Sp., Su.
	University Core	University Core – Federal Government	3	F., Sp., Su.	Total Hours		16	
	Total Hours		17					

Year Four	EENG 4910	Senior Design I <i>Pre-reqs: EENG 3810/3811, 3910, 3920</i>	3	F., Sp.	EENG 4990	Senior Design II <i>Pre-reqs: EENG 4910</i>	3	F., Sp.
	EENG Elective	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	F., Sp.	EENG Elective	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	F., Sp.
	EENG Elective	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	F., Sp.	EENG Elective	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	F., Sp.
	EENG Elective	Options at mydegreeaudit.unt.edu Must complete pre-reqs	3	F., Sp.	University Core	University Core – Language, Philosophy and Culture	3	F., Sp., Su.
	University Core	University Core – Creative Arts	3	F., Sp., Su.	University Core	University Core – Social and Behavioral Sciences	3	F., Sp., Su.
	Total Hours		15		Total Hours		15	

Courses in **GREEN** are taken at UNT and require a particular prerequisite order.

Courses in **BLACK** can be fulfilled by AP, IB, CLEP, and/or Texas Community College Dual Credit or Transfer Credit and require a particular prerequisite order.

Courses in **BLUE** can be fulfilled by AP, IB, CLEP, and/or Texas Community College Dual Credit or Transfer Credit and can be completed in any term prior to graduation.

ENGL, TECM, MATH, CHEM, PHYS, EENG, and CSCE courses require minimum grade of "C" for completion and/or prerequisite. This is an unofficial sample schedule.

This is an unofficial sample schedule. Requirements, prerequisites, corequisites, and term offerings may change. UNT students should check their degree audit at mydegreeaudit.unt.edu each term.

UNT students should meet with their advisor each term to discuss individual scheduling, program decisions, etc.

Advanced Placement (AP), International Baccalaureate (IB), Credit by Exam (CLEP), Texas Community College Dual Credit, Texas Community College Transfer Credit

COMMUNICATION

AP English Lang. And Comp. Score of 3
IB English A: Lang. and Lit. Score of 5
Community College: ENGL 1301
Community College: ENGL 1302

TECHNICAL WRITING

Community College ENGL 2311: TECM 2700

AMERICAN HISTORY I

AP U.S. History score of 3
CLEP History of United States I
Community College: HIST 1301

AMERICAN HISTORY II

AP U.S. History score of 3
CLEP History of United States II
Community College: HIST 1302

FEDERAL GOVT/POLI SCIENCE

AP U.S. Government score of 3
CLEP American Government
Community College: GOVT 2305

STATE GOVT/POLI SCIENCE

Community College: GOVT 2306

CREATIVE ARTS

AP Art History score of 3
IB Dance score of 4*
Community College: ARTS 1301
Community College: ARTS 1304
Community College: MUSI 1306
Community College: DRAM 1310

LANGUAGE, PHILOSOPHY, AND CULTURE

AP English Literature and Comp. score of 3
AP World History score of 3
IB History score of 4*
IB Philosophy score of 5
IB English Language A: Lit. Score of 5
Community College: ENGL 2332
Community College: ENGL 2333
Community College: ENGL 2341
Community College: HIST 2321
Community College: HIST 2322
Community College: PHIL 1301
Community College: PHIL 1304
Community College: PHIL 2303
Community College: PHIL 2306

SOCIAL AND BEHAVIORAL SCIENCES

AP Macroeconomics score of 3
AP Microeconomics score of 3
AP Psychology score of 3
IB Economics score of 4*
IB Geography score of 4*
IB Psychology score of 4*
CLEP Macroeconomics
CLEP Microeconomics
CLEP Human Growth and Development
CLEP Introductory Psychology
CLEP Introductory Sociology
Community College: ANTH 2346
Community College: ANTH 2351

SOCIAL AND BEHAVIORAL SCIENCES (Continued)

Community College: ECON 2301
Community College: ECON 2302
Community College: GEOG 1303
Community College: TECA 1354
Community College: COMM 1307
Community College: PSYC 2301
Community College: PSYC 2302
Community College: SOCI 1301
Community College: SPCH 1318

CHEMISTRY

AP Chemistry score of 4: CHEM 1410, 1430
AP Chemistry score of 5: CHEM 1410, 1430, and 1420, 1440
CLEP General Chemistry: CHEM 1410, 1420
IB Chemistry: CHEM 1410, 1430, and 1420, 1440
Community College CHEM 1111: CHEM 1430
Community College CHEM 1311: CHEM 1410
Community College CHEM 1411: CHEM 1410, 1430

PHYSICS

AP Physics C (Mechanics) score of 4: PHYS 1710, 1730
AP PHYS Physics C (Electricity and Magnetism) score of 4: PHYS 2220, 2240
Community College PHYS 2125: PHYS 1730
Community College PHYS 2126: PHYS 2240
Community College PHYS 2325: PHYS 1710
Community College PHYS 2326: PHYS 2220
Community College PHYS 2425: PHYS 1710, 1730
Community College PHYS 2426: PHYS 2220, 2240

MATHEMATICS

AP Calculus AB score of 3: MATH 1710
AP Calculus BC score of 3: MATH 1710, 1720
AP Calculus AB sub score of BC Exam score 3: MATH 1710
IB Mathematics – Calculus: MATH 1710
CLEP College Algebra: MATH 1100
CLEP Pre-calculus: MATH 1650
CLEP Calculus: MATH 1710
Community College MATH 1314 or 1414: MATH 1100
Community College MATH 2312 or 2412: MATH 1650
Community College MATH 2313 or 2413: MATH 1710
Community College MATH 2314 or 2414: MATH 1720
Community College MATH 2315 or 2415: MATH 2730
Community College MATH 2318 or 2418: MATH 2700
Community College MATH 2320 or 2420: Substitutes for MATH 3410
Community College ENGR 2300: Substitutes for MATH 2700

ENGINEERING

Community College ENGR 2105: EENG 2611
Community College ENGR 2301: ENGR 2301
Community College ENGR 2302: ENGR 2302
Community College ENGR 2332: ENGR 2332
Community College ENGR 2305: EENG 2610
Community College ENGR 2405: EENG 2610, 2611
Community College ENGR 2406: EENG 2710, 2711

COMPUTING/PROGRAMMING

AP Computer Science A score of 4: CSCE 1030
IB Computer Science: CSCE 1030, 1040
Community College COSC 1336: CSCE 1030
Community College COSC 1436: CSCE 1030

**Completion of IB program, earned IB Diploma, & minimum score of 4 or completion of IB program without the earned diploma & minimum score of 5, 6, or 7
Other community college or university courses may fulfill requirements. Please confirm with your advisor.*