

# Electrical Engineering – Pre-Calculus

2023-2024 Catalog: Sample Four-Year Schedule

Year One	Fall Semester	Course Title	Credit Hours	Term(s) Offered	Spring Semester	Course Title	Credit Hours	Term(s) Offered
	MATH 1650	Pre-Calculus <i>Pre-req: MATH 1100 or Test Placement</i>	5	F., Sp., Su.	MATH 1710	Calculus I <i>Pre-req: MATH 1650 or Test Placement</i>	4	F., Sp., Su.
	CHEM 1410	General Chemistry I <i>Pre-req: MATH 1100 or higher</i>	3	F., Sp., Su.	CSCE 1030	Computer Science I <i>Pre-req: MATH 1650, Co-req: MATH 1710</i>	4	F., Sp., Su.
	CHEM 1430	General Chemistry I Lab <i>Co/Pre-req: CHEM 1410</i>	1	F., Sp., Su.	EENG 2710	Digital Logic Design	3	F., Sp., Su.
	EENG 1910	Intro to Electrical Engineering	3	F., Sp.	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.
	University Core	University Core – American History I	3	F., Sp., Su.	University Core	University Core – American History II	3	F., Sp., Su.
	Total Hours		18		Total Hours		18	

Year Two	MATH 1720	Calculus II <i>Pre-req: MATH 1710</i>	3	F., Sp., Su.	MATH 2700	Linear Algebra <i>Pre-req: MATH 1720</i>	3	F., Sp., Su.
	PHYS 1710	Mechanics <i>Pre-req: MATH 1710</i>	3	F., Sp., Su.	MATH 2730	Multivariable Calculus <i>Pre-req: MATH 1720</i>	3	F., Sp., Su.
	PHYS 1730	Mechanics Lab <i>Co/Pre-req: PHYS 1710</i>	1	F., Sp., Su.	MATH 3410	Differential Equations <i>Pre-req: MATH 1720</i>	3	F., Sp., Su.
	EENG 2905	Engineering Tools <i>Pre-req: CSCE 1030</i>	3	F., Sp.	PHYS 2220	Electricity & Magnetism <i>Pre-reqs: MATH 1720 &amp; PHYS 1710/1730</i>	3	F., Sp., Su.
	University Core	University Core – Federal Government	3	F., Sp., Su.	PHYS 2240	Electricity & Magnetism Lab <i>Co/Pre-req: PHYS 2220</i>	1	F., Sp., Su.
	University Core	University Core – Creative Arts	3	F., Sp., Su.	EENG 2610	Circuit Analysis <i>Co/Pre-reqs: PHYS 2220/2240, MATH 3410</i>	3	F., Sp., Su.
	Total Hours		16		EENG 2611	Circuit Analysis Lab <i>Co/Pre-reqs: EENG 2610</i>	1	F., Sp., Su.
				Total Hours		17		

Year Three	MATH 3180	Probability for Engineers <i>Pre-reqs: MATH 2700 and MATH 2730</i>	3	F., Sp.	EENG 3520	Electronics II <i>Pre-reqs: EENG 3510/3511</i>	3	F., Sp.
	EENG 2620	Signals and Systems <i>Pre-reqs: EENG 2610/2611 Co/Pre-req: MATH 2730 or 3410</i>	3	F., Sp.	EENG 3810	Communications Systems <i>Pre-reqs: EENG 2620, 3510, MATH 3180</i>	3	F., Sp.
	EENG 2621	Signals and Systems Lab <i>Co/Pre-req: EENG 2620</i>	1	F., Sp.	EENG 3811	Communications Systems Lab <i>Co/Pre-req: EENG 3810</i>	1	F., Sp.
	EENG 2920	Analog Circuit Design <i>Pre-reqs: EENG 1910, EENG 2610/2611, EENG 2710/2711</i>	3	F., Sp.	EENG 3910	Embedded System Design Project <i>Pre-reqs: EENG 2620/2621, EENG 2920</i>	3	F., Sp.
	EENG 3510	Electronics I <i>Pre-reqs: EENG 2610/2611</i>	3	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 3511	Electronics I Lab <i>Co/Pre-req: EENG 3510</i>	1	F., Sp., Su.	University Core	University Core – Language, Philosophy and Culture	3	F., Sp., Su.
	University Core	University Core – State Government	3	F., Sp., Su.	Total Hours		16	
	Total Hours		17					

Year Four	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 4990	Senior Design II <i>Pre-reqs: EENG 4910</i>	3	F., Sp.
	EENG 4910	Senior Design I <i>Pre-reqs: EENG 3810/3811, 3910, 3920</i>	3	F., Sp.	EENG Elective	Options at <a href="http://mydegreeaudit.unt.edu">mydegreeaudit.unt.edu</a> Must complete pre-reqs	3	F., Sp.
	EENG Elective	Options at <a href="http://mydegreeaudit.unt.edu">mydegreeaudit.unt.edu</a> Must complete pre-reqs	3	F., Sp.	EENG Elective	Options at <a href="http://mydegreeaudit.unt.edu">mydegreeaudit.unt.edu</a> Must complete pre-reqs	3	F., Sp.
	EENG Elective	Options at <a href="http://mydegreeaudit.unt.edu">mydegreeaudit.unt.edu</a> Must complete pre-reqs	3	F., Sp.	University Core	University Core – Social and Behavioral Sciences	3	F., Sp., Su.
	EENG Elective	Options at <a href="http://mydegreeaudit.unt.edu">mydegreeaudit.unt.edu</a> Must complete pre-reqs	3	F., Sp.	Total Hours		15	
	Total Hours		16					

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](http://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

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## **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