Biomedical Engineering (STEM Tracks) - College Algebra

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	College Algebra	3	F., Sp.,	MATH	Pre-Calculus	5	F., Sp.,
	1100	Pre-req: TSI Completion	_	Su.	1650	Pre-req: MATH 1100 or Test Placement		Su.
	BMEN 1300	Discover BMEN	3	F., Sp., Su.	CHEM 1410	General Chemistry I Pre-req: MATH 1100 or higher	3	F., Sp., Su.
	Comm.	University Core – Communication	3	F., Sp.,	CHEM	General Chemistry I Lab	1	F., Sp.,
	Core	ommensit, eare communication		Su.	1430	Co/Pre-req: CHEM 1410		Su.
	University	University Core – American History I	3	F., Sp.,	TECM	Technical Writing	3	F., Sp.,
	Core Total			Su.	2700 Total	Pre-req: Communication Core		Su.
	Hours		12		Hours		12	
	DAATH.		1 4	F C=	NAATU.	T a	3	F., Sp.,
	MATH 1710	Calculus I Pre-reg: MATH 1650 or Test Placement	4	F., Sp., Su.	MATH 1720	Calculus II Pre-req: MATH 1710	3	F., Sp., Su.
	CHEM	General Chemistry II	3	F., Sp.,	BMEN	Software for BMEN	4	Sp.
0	1420	Pre-req: CHEM 1410, 1430		Su.	1400	Pre-req: MATH 1650 or higher		
Year Two	CHEM	General Chemistry II Lab	1	F., Sp.,	PHYS	Mechanics	3	F., Sp.,
ē.	1440 University	Co/Pre-reg: CHEM 1420	3	Su. F., Sp.,	1710 PHYS	Pre-req: MATH 1710 Mechanics Lab	1	Su.
Ye	Core	University Core – American History II	3	F., Sp., Su.	1730	Co/Pre-reg: PHYS 1710	1	F., Sp., Su.
	University	University Core – Federal Government	3	F., Sp.,	University	University Core – Creative Arts	3	F., Sp.,
	Core Total			Su.	Core Total			Su.
	Hours		14		Hours		14	
ıree	MATH	Linear Algebra	3	F., Sp.,	MATH	Differential Equations	3	F., Sp.,
	2700	Pre-req: MATH 1720		Su.	3410	Pre-req: MATH 1720		Su.
	BMEN	DAQ Practices	3	F.	BMEN	Biomedical Instrumentation	4	Sp.
	2210	Pre-req: MATH 1720			2320	Pre-reqs: BMEN 1300, 2210 Co/Pre-req:		
Ę	University	University Core – State Government	3	F., Sp.,	Track	BMEN 1400 Elective Track Course	3	Varies
Year Three	Core	Oniversity core – State dovernment		Su.	Course	Must complete any necessary pre-reqs.	3	varies
	University	University Core – Language, Philosophy	3	F., Sp.,	University	University Core – Social and	3	F., Sp.,
	Core	and Culture		Su.	Core	Behavioral Sciences		Su.
	Total Hours		12		Total Hours		13	
	110413		1	l	110013		13	
Year Four	MATH	Multivariable Calculus	3	F., Sp.,	BMEN	Introduction to Biomechanics	3	Sp.
	2730 BMEN	Pre-req: MATH 1720 Human Systems	3	Su. F.	3312 BMEN	Pre-reqs: BMEN 3310, PHYS 1710 Biomaterials	3	Sp.
	3310	Pre-regs: BMEN 1300, 2320	3	١.	3321	Pre-regs: BMEN 3310, PHYS 1710, CHEM		Эρ.
		·				1410		
	BMEN	Signal Analysis	3	F.	Track	Elective Track Course	3	Varies
	3311 BMEN	Pre-req: BMEN 2320 Transport Phenomena	3	F.	Course Track	Must complete any necessary pre-reqs. Elective Track Course	3	Varies
	3350	Pre-regs: BMEN 1300, MATH 3410, PHYS	3	г.	Course	Must complete any necessary pre-regs.	3	varies
		1710, CHEM 1410				act complete any necessary pre requi		
	Total				Track	Elective Track Course	3	Varies
	Hours		12		Course Total	Must complete any necessary pre-reqs.	15	
					Hours		15	
Year Five	DNAEN	Conior Decign I	3	-	DNAENI	Conier Design II	2	C.~
	BMEN 4212	Senior Design I Pre-reqs: BMEN 3*** Requirements	3	F.	BMEN 4222	Senior Design II Pre-reqs: BMEN 4212	3	Sp.
	BMEN	BMEN Advanced Elective	3	F., Sp.	BMEN	BMEN Advanced Elective	3	F., Sp.
	4***	Pre-regs: BMEN 3*** Requirements			4***	Pre-regs: BMEN 3*** Requirements		
	BMEN 4***	BMEN Advanced Elective	3	F., Sp.	BMEN 4***	BMEN Advanced Elective	3	F., Sp.
	4*** Track	Pre-reqs: BMEN 3*** Requirements Elective Track Course	3	F.	4*** Track	Pre-reqs: BMEN 3*** Requirements Elective Track Course	3	Varies
	Course	Must complete any necessary pre-reqs.		1.	Course	Must complete any necessary pre-reqs.	3	varies
	Total		12		Total			
	Hours				Hours		12	

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, BIOL, PHYS, BMEN and Elective track courses require minimum grade of "C" for completion and/or prerequisite.

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

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 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

SOCIAL AND BEHAVIORAL SCIENCES (Continued)

Community College: ANTH 2346
Community College: ANTH 2351
Community College: SPCH 1318
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

CHEMISTRY

AP Chemistry score of 4: CHEM 1410, 1430

AP Chemistry score of 5: CHEM 1410, 1430, and 1420, 1440

IB Chemistry: CHEM 1410, 1430, and 1420, 1440
CLEP General Chemistry: CHEM 1410, 1420
Community College CHEM 1111: CHEM 1430
Community College CHEM 1112: CHEM 1440
Community College CHEM 1311: CHEM 1410
Community College CHEM 1312: CHEM 1420
Community College CHEM 1411: CHEM 1410, 1430
Community College CHEM 1412: CHEM 1420, 1440

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: MATH 1100
Community College MATH 1414: MATH 1100
Community College MATH 2312: MATH 1650
Community College MATH 2412: MATH 1650
Community College MATH 2313: MATH 1710
Community College MATH 2314: MATH 1720
Community College MATH 2315: MATH 2730
Community College MATH 2318: MATH 2700

Community College MATH 2320: Substitutes for MATH 3410

Community College MATH 2413: MATH 1710 Community College MATH 2414: MATH 1720 Community College MATH 2415: MATH 2730 Community College MATH 2418: MATH 2700

Community College MATH 2420: Substitutes for MATH 3410 Community College ENGR 2300: Substitutes for MATH 2700