

BIOMEDICAL ENGINEERING

Sample Three-Year Schedule

Required prerequisite(s) indicated in parentheses & notes

Must earn at least a grade of "C" in each course above except for most University Core courses.

YEAR ONE

FALL

BIOL 2301, Human Anatomy & Physiology	3
BIOL 2311, Human Anatomy & Physiology Lab	1
BMEN 1300, Discover BMEN	3
BMEN 2210, DAQ Practices (MATH 1720)	3
MATH 2700, Linear Algebra (MATH 1720)	<u>3</u>
Total Hours	13

SPRING

BMEN 1400, Software for Biomed (MATH 1650 or higher)	4
BMEN 2320, Biomed. Instrumentation I (see note 1)	3
MATH 3410, Differential Equations (MATH 1720)	3
Elective Track Course (see note 5)	<u>3</u>
Total Hours	13

YEAR TWO

FALL

MATH 2730, Multi. Calculus or MATH 3350 (see note 2)	3
BMEN 3310, Human Systems (see note 3)	3
BMEN 3311, Signal Analysis (BMEN 2320)	3
BMEN 3350, Transp. Phenom. (see note 4)	3
Elective Track course (see note 5)	<u>3</u>
Total Hours	15

SPRING

MATH 3680, Statistics and Probability (MATH 1720)	3
BMEN 3312, Intro. to Biomech. (BMEN 3310, PHYS 1710)	3
BMEN 3321, Biomaterials (BMEN 3310, PHYS, CHEM)	3
Elective Track course (see note 5)	<u>3</u>
Total Hours	12

YEAR THREE

FALL

BMEN 4310, Biomedical Modeling (BMEN 3321)	3
BMEN 4212, Senior Design I (BMEN 3*** reqts)	1
BMEN 4***, Advanced Elective (BMEN 3311, 3312)	3
Elective Track course (see note 5)	3
Elective Track Course (see note 5)	<u>3</u>
Total Hours	13

SPRING

BMEN 4222, Senior Design II (BMEN 4212)	3
BMEN 4***, Advanced Elective	3
BMEN 4***, Advanced Elective	3
Elective Track course (see note 5)	<u>3</u>
Total Hours	12

Notes:

Note 1: BMEN 2320 requires completion of BMEN 1300, BMEN 2210, BMEN 1400 or concurrent enrollment in BMEN 1400.

Note 2: MATH 2730 requires completion of MATH 1720. MATH 3350 requires completion of MATH 2700 and Programming.

Note 3: BMEN 3310 requires completion of BMEN 1300, BMEN 2320, BIOL 2301, and BIOL 2311.

Note 4: BMEN 3350 requires completion of BMEN 1300, MATH 3410, PHYS 1710, and CHEM reqt.

Note 5: Elective Track Courses depend on your chosen BMEN track. See BMEN curriculum page for options. Some track courses are offered fall only or spring only. Must meet prerequisite for track courses.

Must earn at least a grade of "C" and a minimum 2.5 GPA in Communications Core, TECM 2700, BMEN 1300, BMEN 1400, BMEN 2210, BMEN 2320, MATH 1710, MATH 1720, PHYS 1710, PHYS 1730, BIOL 2301, BIOL 2311, CHEM 1410, CHEM 1430 or CHEM 1415, 1435 as foundations to enroll in advanced courses.

Credits Which Could be Earned Prior to Enrollment at UNT – AP, IB, CLEP, DC, Transfer:

Communications Core	TECM 2700
HIST 2610	CHEM 1410, 1430
HIST 2620	PHYS 1710, 1730
PSCI 2305	
PSCI 2306	
Creative Arts Core	
Language Philosophy Culture Core	
Social Behavioral Sciences Core	

Credits Which Should be Earned Prior to Enrollment at UNT – AP, IB, CLEP, DC, Transfer:

MATH 1710
MATH 1720

This is an unofficial sample schedule. Requirements, prerequisites, etc. may change. Students should meet with an advisor each semester for individual scheduling, program decisions, etc. Engineering admissions requirements must be met & a degree audit must be created in order to progress in the program to a timely graduation.