

Recommended Chronology: Curriculum for BS Physics: Pre-Medicine and Pre-Dentistry Programs

NOTE: Only for students advised to start in MATH 1441 (Calculus I) first term of freshmen year

Freshman Year			
Fall Semester		Spring Semester	
CHEM 1145 Principles of Chemistry I (4 hrs.)		CHEM 1146 Principles of Chemistry II (4 hrs.)	
ENGL 1101 English Composition I (3 hrs.)		ENGL 1102 English Composition II (3 hrs.)	
FYE 1220 First-Year Seminar (2 hr.)		PHYS 2212/1114 Prin. of Physics II w Lab (4 hrs.)	
PHYS 2211/1113 Prin. of Physics I w Lab (4 hrs.)		MATH 2242 Calculus II (4 hrs.)	
MATH 1441 Calculus I (4 hrs.)		KINS (1 hr.)	
Total Hours = 17		Total Hours = 16	

Sophomore Year			
Fall Semester		Spring Semester	
CHEM 3341 Organic Chemistry I (4 hrs.)		CHEM 3342 Organic Chemistry II (4 hrs.)	
MATH 2331 Elementary Linear Algebra (3 hrs.)		MATH 3230 Differential Equations (3 hrs.)	
PHYS 3536 Modern Physics I (3 hrs.)		PHYS 3537 Modern Physics II (3 hrs.)	
PHYS 3420 Adv Physics Lab I (2 hrs.)		PHYS 3420 Adv Physics Lab II (2 hrs.)	
BIOL 2107/2107L Principles of Biology / Lab (4 hrs.)		BIOL 2108/2108L Principles of Biology II / Lab (4 hrs.)	
Total Hours = 16		Total Hours = 16	

Junior Year			
Fall Semester		Spring Semester [#]	
BIOL 3130 Genetics (3 hrs.)		CHEM 5541 Biochemistry I (4 hrs.)	
PHYS 5151 Classical Mechanics (5 hrs.)		PHYS 5152 Classical E and M Theory (5 hrs.)	
MATH 2243 Calculus III (4 hrs.)		PHYS 3131 Optics (3 hrs.)	
COMM 1110 Principles of Public Speaking (3 hrs.)*		HIST 1112 World History II (3 hrs.)	
PHYS 3520 Problem Solving (2 hrs.)		HLTH 1520 Healthful Living (2 hrs.)	
KINS (1 hr.)			
Total Hours = 18		Total Hours = 17	

*Strongly recommended as Area C elective

[#]Also focus on studying for MCAT

Senior Year			
Fall Semester		Spring Semester	
PHYS 5557 Quantum Mechanics (5 hrs.)		PHYS 5530 Thermal Physics (3 hrs.)	
STAT 2231 Statistics (3 hrs.)		Environmental Science (4 hrs.)	
POLS 1101 American Government (3 hrs.)		BIOLOGY ELECTIVE – choose from list (4 hrs)	
ENGL 2111 or 2112 World Literature (3 hrs.)		ECON 2105 Economics in a Global Society (3 hrs)	
AREA E Elective - SOCI1101 or PSYC1101** (3hrs.)		HIST 2110 US Survey (3 hrs.)	
IDS 2210 Turning Pts & Connections (1 hr.)			
Total Hours = 18		Total Hours = 17	

**Strongly recommended as Area E elective

BIOLOGY ELECTIVE (consult your advisor)

BIOL 3230 Intro to Immunology or BIOL 5248 Immunology
 BIOL 3240 Bio of Microorganisms or BIOL 5140 Bacteriology
 BIOL 5142 Molecular Biotechniques
 BIOL 5148 Human Genetics
 BIOL 5230/5210 Comparative Animal Physiology/Lab
 BIOL 5240 Histology

BIOL 5241 Comparative Vertebrate Anatomy
 BIOL 5341 Parasitology
 BIOL 5246 Human Pathophysiology
 BIOL 5431 Virology
 BIOL 5146 Developmental Biology