

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

NOTE: Only for students advised to start in MATH 1112 (Trigonometry) 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 hrs.)		PHYS 2211/1113 Prin. of Physics I w/Lab (4 hrs.)
MATH 1112 Trigonometry (3 hrs.)		MATH 1441 Calculus I (4 hrs.)
PHYS 1149 Environmental Physics (4 hrs.)		KINS (1 hr.)
Total Hours = 16		Total Hours = 16

Summer	
PHYS 2212/1114 Prin of Physics II w/Lab (4 hrs.)	
HIST 1112 – World History II (3 hrs.)	

Sophomore Year		
Fall Semester		Spring Semester
CHEM 3341 Organic Chemistry I (4 hrs.)		CHEM 3342 Organic Chemistry II (4 hrs.)
PHYS 3536 Modern Physics I (3 hrs.)		MATH 3230 Differential Equations (3 hrs.) - OVERRIDE
PHYS 3420 Adv Physics Lab I (2 hrs.)		BIOL 2108/2108L Principles of Biology II / Lab (4 hrs.)
BIOL 2107/2107L Principles of Biology I/Lab (4 hrs.)		PHYS 3537 Modern Physics II (3 hrs.)
MATH 2242 Calculus II (4 hrs.)		PHYS 3420 Adv Physics Lab II (2 hrs.)
Total Hours = 17		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.)		MATH 2243 Calculus III (4 hrs.)
PHYS 3520 Problem Solving (2 hrs.)		HLTH 1520 Healthful Living (2 hrs.)
COMM 1110 Principles of Public Speaking (3 hrs.)*		PHYS 5152 Classical E and M Theory (5 hrs.)
MATH 2331 Linear Algebra (3 hrs.)		PHYS 3131 Optics (3 hrs.)
KINS (1 hr.)		
Total Hours = 17		Total Hours = 18

*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.)		BIOLOGY ELECTIVE – choose from list (4 hrs.)
POLS 1101 American Government (3 hrs.)		ECON 2105 Economics in a Global Society (3 hrs.)
Area E Elective – PSYC 1101 or SOCI 1101** (3 hrs.)		HIST 2110 US Survey (3 hrs.)
IDS 2210 Turning Pts & Connections (1 hr.)		ENGL 2111 or 2112 World Literature (3 hrs.)
Total Hours = 15		Total Hours = 16

**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