Pre-Medical (Physics Major)

Pre-Medical (Physics Major) is a program designed for students interested in pursuing a medical degree or advanced degree in medical or radiation physics after graduation. The degree program consists of a major in Physics and a Minor in Biology. Students who in addition complete CHEM 340 will receive a Minor in Chemistry.

Core Curriculum Courses See the Core Curriculum Requirements (https://coursecatalog.tamuc.edu/undergrad/core-curriculum-requirements/) 42 Required courses in the major **PHYS 101** Physics and Astronomy Seminar 1 **PHYS 2425** University Physics I 4 **PHYS 2426** University Physics II 4 Mathematical Methods for Physics and Engineering **PHYS 317** 3 **PHYS 321** Modern Physics 3 **PHYS 333** Wave Motion, Acoustics, and Optics 4 **PHYS 335** Advanced Physics Laboratory 3 **PHYS 401** Current Topics in Physics and Astronomy (1 sh, must be repeated for total of 2 sh) 2 3 **PHYS 411 Classical Mechanics PHYS 412** Electricity and Magnetism 3 **PHYS 414** Thermodynamics and Kinetic Theory 3 **PHYS 420** Quantum Mechanics 3 PHYS/MATH/CHEM/BSC Advanced 4 **Required courses for Biology Minor** BSC 1406 Introductory Biology I 4 BSC 1407 Introductory Biology II 4 **BSC 303** Cell Biology 4 **BSC 304** Genetics 4 BSC 305 General Physiology 4 BSC 306 Applied Microbiology 4 **Required support courses** CHEM 1111 General and Quantitative Chemistry Laboratory I 1 CHEM 1112 General and Quantitative Chemistry Laboratory II 1 General and Quantitative Chemistry I **CHEM 1311** CHEM 1312 General and Quantitative Chemistry II CHEM 2123 Organic Chemistry Laboratory I 1 CHEM 2125 Organic Chemistry Laboratory II 1 CHEM 2323 Organic Chemistry I 3 CHEM 2325 Organic Chemistry II 3 MATH 2413 Calculus I MATH 2414 Calculus II MATH 2415 Calculus III 4 120

Total Hours

* This course should be taken to fulfill Core Curriculum Requirements.