

SUGGESTED PROGRAM – BACHELOR OF SCIENCE IN PHYSICS

FIRST YEAR

Suggested Program	
Fall Semester	Hours
ENGL 1303. First Year Writing I	3
CHEM 1331 and 1111. Fundamentals of Chemistry and Fundamentals of Chemistry Laboratory	4
MATH 1431. Calculus I	4
Social Sciences Core Course	3
Total	14
Suggested Program	
Spring Semester	Hours
ENGL 1304. First Year Writing II	3
CHEM 1332 and 1112. Fundamentals of Chemistry and Fundamentals of Chemistry Laboratory	4
MATH 1432. Calculus II	4
PHYS 1321. University Physics I	3
PHYS 1121. University Physics Laboratory I	1
Total	15

Second Year

Fall Semester Suggested Program	
Courses	Hours
MATH 2331. Linear Algebra	3
MATH 2433. Calculus III	4
PHYS 1322. University Physics II	3
PHYS 1122. University Physics Laboratory II	1
HIST 1377. The United States to 1877 or equivalent	3
Total	14
Spring Semester Suggested Program	

Courses	Hours
MATH 3331. Differential Equations	3
PHYS 3315. Modern Physics I	3
Natural Science Approved Course	3
HIST 1378. The United States Since 1877 or equivalent	3
Humanities Core Course	3
Total	15

THIRD YEAR

Fall Semester Suggested Program	
Courses	Hours
MATH 3364. Complex Analysis	3
PHYS 3110. Advanced Laboratory Analysis	1
PHYS 3313. Advanced Laboratory I	3
PHYS 3316. Modern Physics II	3
PHYS 3309. Intermediate Mechanics	3
POLS 1336. U.S. and Texas Constitutions and Politics or equivalent	3
Total	16
Spring Semester Suggested Program	
Courses	Hours
MATH 3363. Introduction to Partial Differential Equations	3
PHYS 3214. Advanced Laboratory II	2
PHYS 3327. Thermal Physics	3
POLS 1337. U.S. Government: Congress, President and Courts or equivalent	3
Free Elective, Minor Course	3
Visual/Performing Arts Core Course	3
Total	17

FOURTH YEAR

Fall Semester Suggested Program	
Courses	Hours
PHYS 4321. Intermediate Electromagnetic Theory I	3

PHYS 3312 and PHYS 3112 or PHYS 4421 . Modern Optics and Modern Optics Laboratory or Electronics Devices and Their Applications	4
Physics Elective (3000- or 4000-level)	3
NSM Capstone Course, Minor or Free Elective	3
Natural Science Approved Course	3
Total	16

Spring Semester Suggested Program

Courses	Hours
PHYS 4322 . Intermediate Electromagnetic Theory II	3
Physics Elective (3000- or 4000-level)	3
NSM Capstone Course or Minor or Free Elective	7
Total	13