

## SUGGESTED PROGRAM – BACHELOR OF ARTS IN PHYSICS (GEOPHYSICS SPECIALIZATION)

### FIRST YEAR

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

### SECOND YEAR

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

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

### THIRD YEAR

<b>Fall Semester Suggested Program</b>	
<b>Courses</b>	<b>Hours</b>
<b>MATH 3364.</b> Introduction to Partial Differential Equations	3
<b>PHYS 3110.</b> Advanced Laboratory Analysis	1
<b>PHYS 3313.</b> Advanced Laboratory I	3
<b>PHYS 3316.</b> Modern Physics II	3
<b>PHYS 3309.</b> Intermediate Mechanics	3
<b>POLS 1336.</b> U.S. and Texas Constitutions and Politics or equivalent	3
Total	16
<b>Spring Semester Suggested Program</b>	
<b>Courses</b>	<b>Hours</b>
<b>MATH 3363.</b> Introduction to Partial Differential Equations	3
<b>PHYS 3214.</b> Advanced Laboratory II	2
<b>PHYS 3327.</b> Thermal Physics	3
<b>POLS 1337.</b> U.S. Government: Congress, President and Courts or equivalent	3
Geology Approved Elective	3
Total	14

## FOURTH YEAR

<b>Fall Semester Suggested Program</b>	
<b>Courses</b>	<b>Hours</b>
<b>GEOS 4330.</b> Introduction to Geophysics	3
Geology Approved Electives	3
<b>PHYS 4321.</b> Intermediate Electromagnetic Theory I	3
<b>PHYS 3312</b> and <b>PHYS 3112</b> or <b>PHYS 4421.</b> Modern Optics and Modern Optics Laboratory or Electronic Devices and Their Applications	4
NSM Capstone, Minor, Elective	3
<b>Total</b>	<b>16</b>

  

<b>Spring Semester Suggested Program</b>	
<b>Courses</b>	<b>Hours</b>
<b>PHYS 4322.</b> Intermediate Electromagnetic Theory II	3
Geology Approved Elective	6
Visual/Performing Arts Core Course	3
NSM Capstone, Minor, Elective	3
<b>Total</b>	<b>15</b>