BACHELOR OF SCIENCE IN APPLIED PHYSICS - GENERAL

Code	Title	Credit Hours
Wellness Requirement		
APPH 1040	Scientific Foundations of Health	2
or APPH 10	The Science of Physical Activity and Health	
or APPH 10	Flourishing: Strategies for Well-being and Resilience	
Institutional Priority		
CS 1301	Introduction to Computing	3
or CS 1371	Computing for Engineers	
Mathematics and Quantitative Skills		
MATH 1552	Integral Calculus	4
Political Science and U.S. History		
Choose one of the following:		3
HIST 2111	The United States to 1877	
HIST 2112	The United States since 1877	
INTA 1200	American Government in Comparative Perspective	
POL 1101	Government of the United States	
PUBP 3000	American Constitutional Issues	
Arts, Humanities, and Ethics		
Any HUM		6
Communicating in Writing		
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
Technology, Mathematics, and Sciences		
PHYS 2211	Principles of Physics I [1]	4
PHYS 2212	Principles of Physics II [5]	4
MATH 1551	Differential Calculus	2
MATH 1553	Introduction to Linear Algebra	2
or MATH 1554	Linear Algebra	
or MATH 1564	Linear Algebra with Abstract Vector Spaces	
Social Sciences		
Any SS		9
Field of Study		
MATH 2551	Multivariable Calculus	4
MATH 2552	Differential Equations	4
CHEM 1310	Principles of General Chemistry for Engineers	4
or CHEM 1211K	Chemical Principles I	
PHYS 2213	Introduction to Modern Physics	3
Any PHYS 2XXX not specified or MATH 2106		3
Upper-Level Physics		
PHYS 3120	Computational Physics	3
PHYS 3122	Electrostatics and Magnetostatics	3
PHYS 3123	Electrodynamics	3
PHYS 3141	Thermodynamics	3
PHYS 3143	Quantum Mechanics I	3
PHYS 3201	Classical Mechanics I	3
PHYS 3208	Modern Optics Laboratory	3
PHYS 3209	Electronics I	3
PHYS 4321	Advanced Laboratory I	3
PHYS 4604	Professional Development	1
PHYS 4605	Scientific Communication	1
Physics or Technical Electives		
Any PHYS or Technical Electives [2,3,4]		15
Free Electives		
Free Electives		15
Total Credit Hours		**122**

Student must have 2.0 in all PHYS classes 3000-level or higher

Pass-fail only allowed for Free Electives.

1. If PHYS 2231 is taken, extra hour goes towards Physics or Technical Electives
2. Any PHYS course, CHEM 3411, CHEM 3412, CHEM 3511, EAS 2750, EAS 4300, EAS 4430, MATH 2106, MATH 3215, MATH 3235, MATH 4320, MATH 4347, MATH 4348, MATH 4581, NRE 3301, NRE 4610
3. Maximum of six credit hours below 3000-level
4. Maximum of nine credit hours of PHYS 2699 or PHYS 4699
5. If PHYS 2232 is taken, extra hour goes toward Physics Electives