

B.S. Physics

2014-2015 Sample Course Schedule — *This is a recommended schedule and may be altered as needed. Consult your adviser when making changes. See degree audit for Christian Service requirements.*

FALL

WINTER

FIRST YEAR

ENGL 101	College Composition I	3	ENGL 102	College Composition II	3
MATH 191	Calculus I	4	MATH 192	Calculus II	4
PHYS 221	University Physics I	4	MATH 216	Set Theory & Logic	2
PHYS 223	University Physics I Lab	1	PHYS 222	University Physics II	4
NOND 101	Southern Connections	1	PHYS 224	University Physics II Lab	1
CPTR 110	Computational Thinking Sci.	<u>3</u>	PEAC 125	Fitness for Collegiate Life (P-1-a)	<u>1</u>
		16			15

SECOND YEAR

PHYS 310	Modern Physics	3	MATH 315	Differential Equations	3
COMM 135	Intro to Public Speaking	3	MATH 200	Elementary Linear Algebra	2
MATH 218	Calculus III	3		Physics (<u>MJ Elective</u>)	3
	Physical Activity (P-1-b)	1		RELT 138, 225, <u>or</u> 255	3
	Aesthetic & Skills Dev. (S-3)	3		Personal/Social Adj. (S-2)	3
	RELB 125 <u>or</u> RELT 177 (R-1)	<u>3</u>		Health Science (P-2)	<u>2</u>
		16			16

THIRD YEAR

PHYS 413	Analytic Mechanics	3	PHYS 412	Quantum Mechanics	3
PHYS 414	Electrodynamics I	3	PHYS 415	Electrodynamics II	3
PHYS 497	Undergraduate Research	1	PHYS 325	Advanced Physics Lab (<u>MJ Elective</u>)	1
MATH 319	Linear Algebra	2	PHYS 497	Undergraduate Research (elective)	1
CPTR 124	Fundamentals of Programming	4		Physical Activity (P-1-b)	1
	U.D. Biblical Studies (R-3)(W)	<u>3</u>		History (I-3-a)	3
		16		Aesthetic & Skills Dev. (S-3)	<u>3</u>
					15

FOURTH YEAR

PHYS 418	Advanced Quantum Mechanics	3	PHYS 419	Advanced Quantum Mechanics	3
PHYS 480	Sci. Wrtg & Presentation (W)*	1	RELT 317	Issues in Physical Science & Religion	3
PEAC 425	Fit for Hire (P-1-c)	1		Physics (<u>major Elective</u>)	3
	Econ. & Bus. Basics (I-5)	3		Electives (Math/Sci. rec.)	4
	Electives (Math/Sci. rec.)	3		U.D. Civ. & Global Persp. (I-3)(W)	<u>3</u>
	Electives	2			16
	Physics (<u>major elective</u>)	<u>1</u>			
		14			

TOTAL HOURS

124

*Preparation for Scientific Writing can be obtained via PHYS 497 the previous semester or as part of a summer research appointment (e.g. through the National Science Foundation Research Experience for Undergraduates program).