

B.S. Physics

2020-2021 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	Critical Think in Ac Rdg & Wrtg I	3	ENGL 102	Critical Think in Ac Rdg & Wrtg II	3
MATH 191	Calculus I	4	MATH 192	Calculus II	4
PHYS 221	University Physics I	4	PHYS 222	University Physics II	4
PHYS 223	University Physics I Lab	1	PHYS 224	University Physics II Lab	1
NOND 101	Southern Connections	1	MATH 201	Interm. Linear Algebra or MATH 200	2-3
	Electives*	<u>3</u>	PEAC 125	Fitness for Collegiate Life	1
		16		Electives	<u>0-1</u>
					16

SECOND YEAR

MATH 218	Calculus III	4	MATH 315	Differential Equations	3
MATH 215	Statistics	3	PHYS 413	Analytic Mechanics**	3
PHYS 310	Modern Physics	3	PHYS 411	Clas/Stat Thermodynamics (Phys Elect)*	3
CPTE 100	Computer Concepts	1	CPTR124	Fund. of Computing (Elective)	4
	Physical Activity (P-1b)	1		PSYC 128 or SOCI 125 (IN-8)	<u>3</u>
	RELB 125 or RELT 177 (R-1)	<u>3</u>			16
		15			

THIRD YEAR

PHYS 497	Undergraduate Research ♦	1	COMM 135	Comm. & Public Speaking	3
PHYS 313	Physical Optics (Physics Elective)**	3	PHYS 412	Quantum Mechanics	3
	RELT 138, 225, or 255 (R-2)	3	PHYS 414	Electrodynamics I	3
	Historical Perspectives (IN-6)	3	PHYS 305	Biophysics (Physics Elective)	3
	Stewardship, Bus & Econ (IN-9)	3		Physical Activity (P-1b)	1
	Electives*	<u>2</u>		U.D. Electives (W)*	<u>3</u>
		15			16

FOURTH YEAR

PHYS 415	Electrodynamics II**	3	PHYS 480	Science Wrtg & Presentation (W)***	1
PHYS 418	Advanced Quantum Mechanics**	3	PHYS 325	Advanced Lab (Physics Elective)**	1
MATH 316	Partial Diff. Equations (Elective)**	3	RELT 317	Issues in Physical Science & Rel (R-4)	3
	U.D. Biblical Studies (R-3) (W)	3	PEAC 425	Fit for Hire	1
	Electives*	<u>3</u>		Aesthetic Analysis (IN-10)	3
		15		Electives*	<u>6</u>
					15

TOTAL HOURS

124

♦Select one hour from the following: PHYS 295, 495, 297, 497.

*Work closely with academic adviser to choose elective credit that fits academic and career goals.

**Offered on a 2-year alternating cycle. Consult with academic advisor on sequence.

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