

**Physics BS - Secondary Education Emphasis
Four-Year Plan of Study (2015-2016)**

FRESHMAN	FALL		SPRING	
	STEM-ED 101: STEP 1	1	STEM-ED 102: STEP 2	1
	PHYS 211: PHYSICS I WITH CALCULUS	4	PHYS 212: PHYSICS II WITH CALCULUS	4
	PHYS 211L: PHYSICS I LAB	1	PHYS 212L: PHYSICS II LAB	1
	MATH 170: CALCULUS I	4	MATH 175: CALCULUS II	4
	ENGL 101: INTRO TO COLLEGE WRITING	3	ED-CIFS 201: FOUNDATIONS OF EDUCATION (DLS)	3
			ENGL 102: INTRO TO COLLEGE WRITING & RESEARCH	3
	<i>SEMESTER TOTAL</i>	13	<i>SEMESTER TOTAL</i>	16

SOPHOMORE	FALL		SPRING	
	STEM-ED 210: KNOWING & LEARNING (DLS)	3	STEM-ED 310: CLASSROOM INTERACTIONS	3
	PHYS 309: INTRO QUANTUM PHYSICS	3	PHYS 311: MODERN PHYSICS	3
	PHYS 309L: INTRO QUANTUM PHYSICS LAB	1	UF 200: CIVIC & ETHICAL FOUNDATIONS	3
	MATH 275: CALCULUS III	4	MATH 333: DIFFERENTIAL EQUATIONS	4
	UF 100: INTELLECTUAL FOUNDATIONS	3		
	<i>SEMESTER TOTAL</i>	14	<i>SEMESTER TOTAL</i>	13

JUNIOR	FALL		SPRING	
	STEM-ED 220: PERSPECTIVES (DLL)	3	STEM-ED 350: RESEARCH METHODS	3
	PHYS 381: ELECTROMAGNETIC THEORY	4	PHYS 382 EM THEORY OR PHYS 330/330L OPTICS & LAB	4
	PHYS 325: SCIENTIFIC COMPUTING	4	PHYS 341: MECHANICS	4
	CHEM 111/111L: GENERAL CHEMISTRY I & LAB	4	CHEM 112/112L: GENERAL CHEMISTRY II & LAB	4
	<i>SEMESTER TOTAL</i>	15	<i>SEMESTER TOTAL</i>	15

SENIOR	FALL		SPRING	
	STEM-ED 410: PROJECT-BASED INSTRUCTION	3	STEM-ED 480: APPRENTICE TEACHING	6
	PHYS 432: THERMAL PHYSICS	4	PHYS 499: SENIOR SEMINAR	1
	MATH 301: LINEAR ALGEBRA	3	DLV VISUAL & PERFORMING ARTS	3
	PHYS 104: PLANETS & ASTROBIOLOGY	4	PHYS 301: ANALOG & DIGITAL ELECTRONICS	4
	<i>SEMESTER TOTAL</i>	14	<i>SEMESTER TOTAL</i>	14

*SEE CATALOG FOR ADDITIONAL REQUIREMENTS

TOTAL PROGRAM CREDITS 114 (PLUS 6 ELECTIVE CREDITS)