BACHELOR OF SCIENCE (120 cr. hours)

Physics   **College of Liberal Arts and Sciences**

4-Year Degree Plan [sample]

YEAR ONE

Fall Semester (15 cr. hours)

	course title	credits	grade
	PHYS-P 221 Physics 1	5	
FL Quantitative Reasoning	MATH-M 215 Calculus I	5	
	PHYS-S 106 Contemporary Physics Seminar	1	
FL Writing	ENG-W 131 Elementary Composition 1	3	
FL Information Literacy	COAS-Q 110 Introduction to Information Literacy	1	

Spring Semester (16 cr. hours)

	course title	credits	grade
	PHYS-P 222 Physics 2	5	
FL Quantitative Reasoning	MATH-M 216 Calculus II	5	
	Common Core	3	
FL Critical Thinking	Critical Thinking	3	

YEAR TWO

Fall Semester (15 cr. hours)

	course title	credits	grade
	PHYS-P 323 Physics 3	3	
	MATH-M 301 Linear Algebra and Applications	3	
	MATH-M 343 Introduction to Differential Equations	3	
	Foreign Language 101	3	
	Common Core	3	

Spring Semester (15 cr. hours)

	course title	credits	grade
	PHYS-P 309 Modern Physics Laboratory or 324 Physics 4	3	
	PHYS-P 340 Thermodynamics and Statistical Mechanics OR 453 Introduction to Quantum Mechanics	3	
FL Computer Literacy	Computer Literacy	3	
	Foreign Language 102	3	
	Common Core	3	

YEAR THREE

Fall Semester (16 cr. hours)

	course title	credits	grade
	PHYS-P 441 Analytical Mechanics OR 331 Theory of Electricity and Magnetism	3	
	MATH-M 311 Calculus 3	5	
	Physics major elective	3	
	Elective	3	
CSV Health and Wellness	Health and Wellness	2	

Spring Semester (15 cr. hours)

	course title	credits	grade
	PHYS-P 324 Physics 4 or 309 Modern Physics Laboratory	3	
	PHYS-P 453 Introduction to Quantum Mechanics OR 340 Thermodynamics and Statistical Mechanics	3	
FL Oral Communication	SPCH-S 121 Public Speaking	3	
FL Visual Literacy	Visual Literacy	3	
	Elective	3	

YEAR FOUR

Fall Semester (13-18 cr. hours)

	course title	credits	grade
	PHYS-P 331 Theory of Electricity and Magnetism OR 441 Analytical Mechanics I	3	
	PHYS-S 406 Research	(1-6)	
	Common Core 4	3	
CSV Non-Western Cultures	Non-Western Cultures	3	
	Elective	3	

Spring Semester (15 cr. hours)

	course title	credits	grade
	MATH-M 3XX or 4XX 300- or 400- level math course applicable to major	3	
CSV Diversity in U.S. Society	Diversity in U.S. Society	3	
	Elective	3	
	Elective	3	
	Elective	3	

FL Fundamental Literacies   **CSV** Contemporary Social Values   **CC** Common Core* (*at least one Common Core class must be at the 300 level*).

At the end of the second year, the student's file will be reviewed by the LAS faculty for official acceptance as a declared major in the area.

Students must complete at least 30 credit hours in 300 or 400 level courses.