

College of Arts and Sciences
Department of Physics
Bachelor of Arts Curriculum

Freshman Year:

<i>Semester 1:</i>	CR	<i>Semester 2:</i>	CR
CHEM 163/165 General Chemistry I/ Lab	4	PHYS 161 Engineering Physics I	3
ENGL 190 Adv. Strategies of Rhetoric & Research	3	PHYS 162 Engineering Physics I Laboratory	1
MATH 142 Calculus I	4	MATH 143 Calculus II	4
HIST 111 Origins of the Modern World to 1600	3	ENGL 200 Level Literature	3
PHYS 111 Introduction to Physics	1	HIST 112 Origins of the Modern World 1600+	3
		CSCI 145 Scientific Programming (recommended)	3
Total Credit Hours	15	Total Credit Hours	17

Sophomore Year:

<i>Semester 1:</i>	CR	<i>Semester 2:</i>	CR
PHYS 163 Engineering Physics II	3	PHYS 261 Modern Physics	3
PHYS 164 Engineering Physics II Laboratory	1	PHYS 262 Modern Physics Laboratory	1
MATH 244 Calculus III	4	PHYS 311 Classical Mechanics	3
PHIL 105 Historical Introduction to Philosophy	3	MATH 266 Principles of Mathematics	3
Social Science	3	THEO 100 Theological Foundations	3
Foreign Language	3	Foreign Language	3
Total Credit Hours	17	Total Credit Hours	16

Junior Year:

<i>Semester 1:</i>	CR	<i>Semester 2:</i>	CR
Open elective	3	PHYS 421 Electricity-Magnetism I	3
PHYS Upper Level Course	3	PHYS Upper Level Course	3
ENGL 300 or 400 Level Course	3	MATH 315 Introduction to Linear Algebra	3
MATH 355 Differential Equations	3	THEO 200 Level Course	3
PHIL 205 Ethics	3	Social Science	3
Total Credit Hours	15	Total Credit Hours	15

Senior Year:

<i>Semester 1:</i>	CR	<i>Semester 2:</i>	CR
PHYS 461 Quantum Mechanics	3	Open elective	3
Open elective	3	PHYS 488 Senior Inquiry	3
MATH 451 Intro. Complex Variables	3	Cultural Diversity	3
PHIL 300 or 400 Level Course	3	THEO 300 or 400 Level Course	3
Fine and Performing Arts	3	Open elective	3
Total Credit Hours	15	Total Credit Hours	15

Total Credit Hours: 125 (122 required)

Name: _____

Advisor: _____

Requirements of the B. A. Degree

MATH 142 Calculus I _____

MATH 143 Calculus II _____

MATH 244 Calculus III _____

MATH 355 Differential Equations _____

MATH 266 Principles of Mathematics _____

MATH 315 Introduction to Linear Algebra _____

MATH 451 Introduction to Complex Variables _____

CHEM 163 General Chemistry w/ Lab _____

PHYS 111 Introduction to Physics _____

PHYS 161 Engineering Physics I _____

PHYS 162 Engineering Physics I Lab _____

PHYS 163 Engineering Physics II _____

PHYS 164 Engineering Physics II Lab _____

PHYS 261 Modern Physics _____

PHYS 262 Modern Physics Lab _____

PHYS 311 Classical Mechanics I _____

PHYS 421 Electricity and Magnetism I _____

PHYS 461 Quantum Mechanics _____

PHYS 488 Senior Inquiry _____

Two additional courses selected from the following list:

PHYS 331 Optics _____

PHYS 341 Thermodynamics and Statistical Mechanics _____

PHYS 351 Analog and Digital Electronics w/ Lab _____

PHYS 312 Classical Mechanics II _____

PHYS 422 Electricity and Magnetism II _____

PHYS 462 Applications of Quantum Mechanics _____

Recommended

CSCI 145 Scientific Programming _____

Core Curriculum Requirements:

Advanced Strategies of Rhetoric (ENGL 190 or ENGL 192) _____

Foreign Language (2 courses) _____

Cultural Diversity (1 course) _____

Fine and Performing Arts (1 course) _____

Literature (2 courses) _____

History (HIST 111 AND HIST 112) _____

Philosophy (3 courses, Level 100, 200, and 300) _____

Theology (3 courses, Level 100, 200, and 300) _____

Social Science (2 courses) _____

Open Electives:

Four courses _____