

**Bachelor of Science Degree in Physics**  
**FOUR-YEAR DEGREE IN PRE-MEDICAL/RADIATION PHYSICS**  
**Degree Plan - Total Credits: 129**

<i>First Year</i>	<i>First Semester</i>			<i>Second Semester</i>		
	CS 120	Introduction to Programming C++	3	PHYS 116	University Physics Lab I	1
	MATH 241	Calculus I	4	PHYS 152	University Physics I	3
	ENG 131	Freshman English I	3	MATH 242	Calculus II	4
	CHEM 111, 131 or BIOL 143	General Chemistry & Lab I, Survey of Life Science	4	ENG 132	Freshman English II	3
	SC 135 or 136	Business & Professional Comm Public Address	3	PHYS 162	Fundamentals of Scientific Programming	3
	PHYS 151	Computational Modeling of Physical Systems	1	MUSIC 131 or ART 131	Introduction to Music or Drawing and Composition I	3
		18 hrs			17 hrs	

<i>Second Year</i>	<i>Third Semester</i>			<i>Fourth Semester</i>		
	PHYS 217	University Physics Lab II	1	PHYS 218	University Physics Lab III	1
	PHYS 247	Math Methods I	3	PHYS 248	Math Methods II	3
	PHYS 251	University Physics II	3	PHYS 252	University Physics III	3
	PHYS 271	COMP PHYS I	3	PHYS 272	Mechanics I	3
	ENG 2xx	Any 200 Level ENG may be selected	3	MATH 250	Linear Algebra	3
	HIST 231 or POLS 231	American Political Systems I	3	HIST 231 or POLS 231	American Political Systems I	3
		16 hrs			16 hrs	

<i>Third Year</i>	<i>Fifth Semester</i>			<i>Sixth Semester</i>		
	PHYS 333	Electricity and Magnetism I	3	PHYS 330	Intro. to Med. Physics*	3
	PHYS 353	Quantum Mechanics I	3	PHYS 336	Thermodynamics and Stat. Phys.	3
	PHYS 361	Intro to Atomic and Radiation Physics	4	PHYS 366	Nuclear Physics I	4
	PHYS 365	Environmental Radioactivity Seminar	1	PHYS 370	Nuclear Physics Lab I	1
	MATH 251	Diff Equations	3	PHYS 374	Radiation Detection I	4
	HIST 232 or POLS 232	American Political Systems II	3			
		17 hrs			15 hrs	

<i>Fourth Year</i>	<i>Seventh Semester</i>			<i>Eighth Semester</i>		
	ECON 231	Principals of Economics	3	PHYS 426	Radiation Biology Lab	1
	PHYS 467	Nuclear Physics II	3	PHYS 454	Radiation Biology Lab	3
	PHYS 471	Intermediate Nuclear Physics Lab	2	PHYS 478	Radiation Protection and Dosimetry II	4
	PHYS 475	Radiation Detection II	4	PHYS 458	Medical Imaging	3
	PHYS 477	Radiation Protection and Dosimetry I	4	HIST 232 or POLS 232	American Political Systems II	3
		16 hrs			14 hrs	

Name: \_\_\_\_\_ T#: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_

Advisor: \_\_\_\_\_ Date: \_\_\_\_\_

**Approved:**

Chair, Department of Chemistry: \_\_\_\_\_ Date: \_\_\_\_\_

Dean, College of Science & Technology: \_\_\_\_\_ Date: \_\_\_\_\_