PHYSICS DEGREE PROGRAM SEQUENCE

FRESHMAN YEAR– FIRST SEMESTER

TRADITIONAL PHYSICS TRACK, COMPUTATIONAL PHYSICS TRACK, & APPLIED PHYSICS TRACK	***Hours***	***MEDICAL PHYSICS TRACK***	***Hours***
PHYS 1001 Physics as a Profession	1	PHYS 1001 Physics as a Profession	1
COMP 1013 Introduction To Computer Science	3	BIOL 1015 General Biology I	5
ENGL 1123 English I	3	ENGL 1123 English I	3
MATH 1124 Calculus I	4	MATH 1124 Calculus I	4
POSC 1113 American Government I	3	CHEM 1033 Chemistry I	3
SPCH 1003 Speech Communication	3	CHEM 1011 Chemistry I Lab	1
Semester SCH	***17***	***Semester SCH***	***17***

FRESHMAN YEAR– SECOND SEMESTER

TRADITIONAL PHYSICS TRACK, COMPUTATIONAL PHYSICS TRACK, & APPLIED PHYSICS TRACK	***Hours***	***MEDICAL PHYSICS TRACK***	***Hours***
PHYS 2513 University Physics I	3	PHYS 2513 University Physics I	3
PHYS 2511 University Physics I Lab	1	PHYS 2511 University Physics I Lab	1
ENGL 1133 English II	3	BIOL 1025 General Biology II	5
MATH 2024 Calculus II	4	MATH 2024 Calculus II	4
CHEM 1013 Chemistry I	3	CHEM 1043 Chemistry II	3
CHEM 1011 Chemistry Lab I	1	CHEM 1021 Chemistry II Lab	1
HIST 1313 U.S. to 1876	3		
Semester SCH	***18***	***Semester SCH***	***17***

SOPHOMORE YEAR – FIRST SEMESTER

TRADITIONAL PHYSICS TRACK	***Hours***	***COMPUTATIONAL PHYSICS TRACK***	***Hours***	***APPLIED PHYSICS TRACK***	*Hours*	***MEDICAL PHYSICS TRACK***	*Hours*
PHYS 2523 University Physics II	3	PHYS 2523 University Physics II	3	PHYS 2523 University Physics II	3	PHYS 2523 University Physics II	3
PHYS 2521 University Physics II Lab	1	PHYS 2521 University Physics II Lab	1	PHYS 2521 University Physics II Lab	1	PHYS 2521 University Physics II Lab	1
CHEM 1023 Chemistry II	3	CHEM 1023 Chemistry II	3	CHEM 1023 Chemistry II	3	CHEM 2033 Organic Chemistry I	3
CHEM 1021 Chemistry Lab II	1	CHEM 1021 Chemistry Lab II	1	CHEM 1021 Chemistry Lab II	1	COMP 1013 Introduction to Computer Science	3
MATH 2034 Calculus III	4	MATH 2034 Calculus III	4	MATH 2034 Calculus III	4	BIOL 2054 Genetics	4
Foreign Language I	3	COMP 1213 Computer Science I	3	Foreign Language I	3	SPCH 1003 Speech Communication	3
		COMP 1211 Computer Science Lab I	1				
Semester SCH	***15***	***Semester SCH***	***16***	***Semester SCH***	***15***	***Semester SCH***	***17***

SOPHOMORE YEAR – SECOND SEMESTER

TRADITIONAL PHYSICS TRACK	***Hours***	***COMPUTATIONAL PHYSICS TRACK***	***Hours***	***APPLIED PHYSICS TRACK***	*Hours*	***MEDICAL PHYSICS TRACK***	*Hours*
PHYS 3183 Modern Phys. I	3	PHYS 3183 Modern Physics I	3	PHYS 3183 Modern Physics I	3	PHYS 3183 Modern Physics I	3
MATH 2043 Differential Equations I	3	MATH 2043 Differential Equations I	3	MATH 2043 Differential Equations I	3	ENGL 1133 English II	3
Minor Elective	3	Foreign Language I	3	General Elective	3	Foreign Language I	3
Minor Elective	3	COMP 1223 Computer Science II	3	ELEG 2023 Network Theory I	3	CHEM 2043 Organic Chemistry II	3
POSC 1123 American Government II	3	POSC 1123 American Government II	3	POSC 1123 American Government II	3	POSC 1113 American Government I	3
		COMP 1221 Computer Science Lab II	1	ELEG 3011 Circuits Lab	1	HIST 1313 U.S. to 1876	3
Semester SCH	***15***	***Semester SCH***	***16***	***Semester SCH***	***16***	***Semester SCH***	***18***

JUNIOR YEAR – FIRST SEMESTER

TRADITIONAL PHYSICS TRACK	***Hours***	***COMPUTATIONAL PHYSICS TRACK***	***Hours***	***APPLIED PHYSICS TRACK***	*Hours*	***MEDICAL PHYSICS TRACK***	*Hours*
PHYS 3103 Mechanics I	3	PHYS 3103 Mechanics I	3	PHYS 3103 Mechanics I	3	PHYS 3103 Mechanics I	3
PHYS 3123 Electricity & Magnetism I	3	PHYS 3123 Electricity & Magnetism I	3	PHYS 3123 Electricity & Magnetism I	3	PHYS 3123 Electricity & Magnetism I	3
General Elective	3	COMP 2013 Data Structures	3	ELEG 3063 Logic Circuits	3	PHYS 3243 Nuclear & Radiation Physics	3
PHYS 3163 Mathematical Physics I	3	PHYS 3163 Mathematical Physics I	3	ELEG 3013 Network Theory II	3	BIOL 3034 General Microbiology	4
Physics Elective	3	Physics Elective	3	Physics Elective	3	POSC 1123 American Government II	3
				ELEG 3061 Logic Circuits Lab	1		
Semester SCH	***15***	***Semester SCH***	***15***	***Semester SCH***	***16***	***Semester SCH***	***16***

JUNIOR YEAR – SECOND SEMESTER

TRADITIONAL PHYSICS TRACK	***Hours***	***COMPUTATIONAL PHYSICS TRACK***	***Hours***	***APPLIED PHYSICS TRACK***	*Hours*	***MEDICAL PHYSICS TRACK***	*Hours*
Physics Elective	3	Physics Elective	3	Physics Elective	3	PHYS 3073 Optics	3
Minor Elective	3	COMP 2103 Discrete Structures	3	ELEG 3023 Signals & Systems	3	CHEM 4033 Biochemistry	3
HIST 1323 The U.S.-1876 to Present	3	HIST 1323 The U.S.-1876 to Present	3	HIST 1323 The U.S.-1876 to Present	3	HIST 1323 The U.S.-1876 to Present	3
Physics Elective	3	MATH 3023 Probability & Statistics	3	ELEG 3033 Physical Electronics	3	CHEM 4042 Biochemistry Lab	2
Physics Elective	3	General Elective	3	PHYS 3163 Mathematical Physics I	3	General Elective	3
Semester SCH	***15***	***Semester SCH***	***15***	***Semester SCH***	***15***	***Semester SCH***	***14***

SENIOR YEAR – FIRST SEMESTER

TRADITIONAL PHYSICS TRACK	***Hours***	***COMPUTATIONAL PHYSICS TRACK***	***Hours***	***APPLIED PHYSICS TRACK***	*Hours*	***MEDICAL PHYSICS TRACK***	*Hours*
Minor Elective	3	COMP 3113 Object-Oriented Analysis & Design	3	ELEG 3043 Electronics I	3	Physics Elective	3
General Elective	3	COMP 4943 Simulation & Modeling	3	General Elective	3	General Elective	3
General Elective	3	General Elective	3	General Elective	3	PHYS 3323 Physics of Medical Imaging	3
PHYS 4023 Quantum Mechanics I	3	PHYS 4023 Quantum Mechanics I	3	PHYS 4023 Quantum Mechanics I	3	BIOL 3014 Human Anatomy & Physiology I	4
Visual & Performing Arts Option	3	Visual & Performing Arts Option	3	Visual & Performing Arts Option	3	Visual & Performing Arts Option	3
Semester SCH	***15***	***Semester SCH***	***15***	***Semester SCH***	***15***	***Semester SCH***	***16***

SENIOR YEAR – SECOND SEMESTER

TRADITIONAL PHYSICS TRACK	***Hours***	***COMPUTATIONAL PHYSICS TRACK***	***Hours***	***APPLIED PHYSICS TRACK***	*Hours*	***MEDICAL PHYSICS TRACK***	*Hours*
Social or Behavioral Science Option	3	Social or Behavioral Science Option	3	Social or Behavioral Science Option	3	Social or Behavioral Science Option	3
Minor Elective	3	COMP 3223 Software Engineering	3	ELEG 4013 Electromechanical Energy Conversion	3	General Elective	3
PHYS 4103 Advanced Physics Lab	3	PHYS 4103 Advanced Physics Lab	3	PHYS 4103 Advanced Physics Lab	3	BIOL 3024 Human Anatomy & Physiology II	4
PHYS 4473 Senior Research Project	3	PHYS 4473 Senior Research Project	3	PHYS 4473 Senior Research Project	3	PHYS 4473 Senior Research Project	3
Minor Elective	3	Physics Elective	3	Physics Elective	3	PHYS 4103 Advanced Physics Lab	3
Semester SCH	***15***	***Semester SCH***	***15***	***Semester SCH***	***15***	***Semester SCH***	***16***
Major Total	***126***	***Major Total***	***128***	***Major Total***	***128***	***Major Total***	***132***