## PHYSICS (B.S.) PRE-MED WITH BIOLOGY

Course	Title	Hours
Freshman		
Fall		
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
ENG 104 or ENG 103	COMPOSITION I or English Composition I with Co-requisite Support	3
or ENG 111	or COMPOSITION & LITERATURE FOR L	
MATH 241	CALCULUS I WITH LABORATORY	3
PHY 198	PHYSICS STUDENT SEMINAR	0.5
UNIV 100	UNIVERSITY SUCCESS	2
Humanities & Fine Arts Op	tion	3
	Hours	15.5
Spring		
CHEM 142 & CHML 142	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II LAB	4
ENG 105	COMPOSITION II	3
or ENG 112	or COMPOSITION	
MATH 242	CALCULUS II WITH LABORATORY	3
PHY 211 & PHYL 211	General Physics I and GENERAL PHYSICS LAB I	4
PHY 199	PHYSICS STUDENT SEMINAR	0.5
Pathway Option		3
	Hours	17.5
Sophomore		
Fall		
BIO 111	GENERAL BIOLOGY	4
& BIOL 111	and GENERAL BIOLOGY LAB	
CHEM 241 & CHML 241	ORGANIC CHEMISTRY I and ORGANIC CHEMISTRY I LAB	4
Pathway Option	and OngANIC CHEWISTHT LAD	3
PHY 212	General Physics II	4
& PHYL 212	and GENERAL PHYSICS LAB II	·
PHY 298	PHYSICS STUDENT SEMINAR	0.5
	Hours	15.5
Spring		
BIO 112 & BIOL 112	GENERAL BIOLOGY and GENERAL BIOLOGY LAB	4
CHEM 242 & CHML 242	ORGANIC CHEMISTRY II and ORGANIC CHEMISTRY II LAB	4
PHY 299	PHYSICS STUDENT SEMINAR	0.5
UNIV 200	CIVIC ENGAGEMENT	1
Physics Elective		3
Pathway Option		3
	Hours	15.5
Junior		
Fall		
BIO 318 & BIOL 318	INTRODUCTORY GENETICS and INTRODUCTORY GENETICS LAB	4
CHEM 431	BIOCHEMISTRY I	4
& CHML 431	and BIOCHEMISTRY I LAB	
PHY 311 PHY 351	THEORETICAL MECHANICS I THERMAL PHYSICS	3
PHY 361	MATH MET OF PHYSICS &CHEMISTRY	3
PHY 398	PHYSICS STUDENT SEMINAR	0.5
	Hours	17.5
Spring		11.5
BIO 440	CELL BIOLOGY	3
Humanities & Fine Arts Op		3

	Total Hours	122
	Hours	12.5
Statistics Option		3
Social & Behavioral Science Option		3
Humanities & Fine Arts Option		3
PHY 499	PHYSICS STUDENT SEMINAR	0.5
PHY 431	ATOMIC & NUCLEAR PHYSICS	3
Spring		
,	Hours	12.5
Physics Elective		3
PSY 201 or Social & Behavioral Science Option		3
PHY 498	PHYSICS STUDENT SEMINAR	0.5
PHY 422	QUANTUM MECHANICS	3
PHY 411	ELECTROMAGNETIC THEORY I	3
Fall		
Senior		
	Hours	15.5
PHY 399	PHYSICS STUDENT SEMINAR	0.5
PHY 342	OPTICS SPECTRA & LASERS	3
PHY 330	METHODS OF EXPERIMENTAL PHYICS	3
BIO 470	HUMAN PHYSIOLOGY	3

## Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (to be completed during the graduating semester only).

Code	Title	Hours		
Physics Electives				
Students must choose six (6) hours of Physics Electives from the course option list below.				
PHY 241	INTRODUCTN TO ASTRONOMY	4		
PHY 312	THEORETICAL MECHANICS II	3		
PHY 362	MATH MET OF PHYSICS&CHEMISTRY	3		
PHY 412	ELECTROMAGNETIC THEORY II	3		
PHY 449	SPECIL TOPICS IN PHYSICS	3		
Code	Title	Hours		
Statistics Options (Choose one 3 credit hour course)				
PSY 211	STATISTICS I	3		
MATH 271	ELEMENTARY STATISTICS I	3		
BIO 202	ELEMENTARY BIOSTATISTICS	3		