

Plan of Study for BS Physics

Freshman year	LDRS 101	First Year Exp	1	PHYS 221	Physics with Calculus I	3	
	FSEM 101	Freshman seminar	3	PHYS 271	Laboratory for Physics with Calculus I	1	
	FSWI 101	Freshman linked writing	3	MATH 131 or 132	Analytical Geometry and Calculus I or II	4	
	PHYS 101	Introduction to Physics	3	COMM 260	Technical Writing and Communication	3	
	MATH 119 or 131	Pre-Calc or Analytical Geometry and Calculus I	4	RPED 260	Physical Fitness, Resiliency, and Wellness	3	
		Modern language	3		Modern language	3	
	ROTC	1st Year Basic ROTC	1	ROTC	1st Year Basic ROTC	1	
		total	18			total	18
Sophomore year	LDRS 211	Leadership Service Laboratory	0				
		Strand Course	1	CSCI 205	Introduction to Programming with Python	3	
	MATH 132 or 231	Analytic Geometry and Calculus II or III	3	MATH 231 or 234 ***	Calc III or Applied Engineering Mathematics I	4	
		4		*** if taking 231, must take 234 a subsequent term			
ROTC	2nd Year Basic ROTC	2	ROTC	2nd Year Basic ROTC	2		
		total	17			total	17
Junior year	LDRS 311	Junior Ethics Enrichment Experience	0	LDRS 371	Leadership in Organizations	3	
	PHYS 315	Analytical Mechanics I	3	PHYS 309	Computational Physics: Modeling and Simulation	3	
	PHYS 223	Modern physics	3	PHYS 351	Junior Laboratory	3	
	PHYS 310	Sensors, Actuators, and Microcontrollers	3	PHYS 405/410	Quantum Mechanics I/Thermodynamics (alternate year)	3	
	PHYS 308	Optics	3	CHEM 152	General Chemistry II	3	
	PHYS 358	Optics lab	1	CHEM 162	General Chemistry II Laboratory	1	
		Strand course	3				
	RPED	Required Physical Education	0	RPED	Required Physical Education	0	
	ROTC	1st Year Advanced ROTC	0	ROTC	1st Year Advanced ROTC	0	
		total	16			total	16
Senior year	LDRS 411	Senior Leadership Integration Seminar	0	LDRS 27 (R)- TJ 0 Tc 0 Tw 8.5717 -0 0 8.5699 927.9189 108.3789 Tm (3)Tj -0.015 Tc 0.015 Tv			