Plan of Study for BS Physics

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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 Calcul	us l	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	l 18
Sophomore year	LDRS 211	Leadership Service Laboratory		0	PHYS 224	Oscillations, Waves, and Light	3
	PHYS 222	Physics with Calculus II		3	PHYS 274	Oscillations, Waves, and Light Laboratory	1
	PHYS 272	Laboratory for Physics with Calculus II		1	PHYS 307	Electronic Instrumentation	3
	CHEM 151	General Chemistry I		3	PHYS 357	Electronic Instrumentation Laboratory	1
	CHEM 161	General Chemistry I Laboratory		1	CSCI 205	Introduction to Programming with Python	3
		Strand Course		3	MATH 231 or 234***	Calc III or Applied Engineering Mathematics I	4
	MATH 132 or 231	Analytic Geometry and Calculus II or III		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	l 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	l 16
Senior year	LDRS 411	Senior Leadership Integration Seminar		0	LDRS 202	Leadership in American Government and Society	3
	PHYS 403	Electrodynamics I		3	PHYS 410/PHYS 405	Thermodynamics/Quantum Mechanics I (alternate year)	3
	PHYS 420	Physics Capstone I		3	PHYS 421	Physics Capstone II	3
		Approved PHYS elective		3		Approved PHYS elective	3
		Strand Course		3		Strand Course	3
	ROTC	2nd Year Advanced ROTC		0	ROTC	2nd Year Advanced ROTC	0
			total	12	_	total	l 15