

Cleveland State University
College of Science and Health Professions
Bachelor of Science in Physics

First Year

Fall Semester				Spring Semester			
	Credits	Major	Gen Ed		Credits	Major	Gen Ed
ASC 101 Introduction to University Life	1		INTRO	PHY 241 University Physics I	5	X	NS
ENG 101 English I	3		W/C	MTH 182 Calculus II	4	X	M/QL
MTH 181 Calculus I	4	X	M/QL	Social Science Elective**	3		SS
Social Science Elective**	3		SS	ENG 102 English II	3		W/C
African American Experience Elective	3		DIV				
Semester Total	14			Semester Total	15		

Second Year

Fall Semester				Spring Semester			
	Credits	Major	Gen Ed		Credits	Major	Gen Ed
PHY 244 University Physics II	5	X	NS;WAC	PHY 325 Intro Theoretical Physics	3	X	
MTH 281 Multivariable Calculus	4	X		PHY 330 Intro Modern Physics	3	X	
Arts & Humanities Elective**	3		A&H	Writing Across the Curriculum Elective	3		WAC
PHY 320 Intro Computational Physics^	3	X		US Diversity Elective	3		DIV
				Arts and Humanities Elective**	3		A&H
Semester Total	15			Semester Total	15		

Third Year

Fall Semester				Spring Semester			
	Credits	Major	Gen Ed		Credits	Major	Gen Ed
STEM Elective [300/400 level]	3	X		PHY 341 Mechanics and Vibrations II	3	X	
PHY 340 Mechanics and Vibrations I	3	X		PHY 440 Quantum Physics I	3	X	
PHY 474 Thermal Physics	4	X	CAP	PHY 475 Statistical Physics	3	X	
Writing Across the Curriculum Elective	3		WAC	General Elective*	3		
General Elective*	3			General Elective*	3		
Semester Total	16			Semester Total	15		

Fourth Year

Fall Semester				Spring Semester			
	Credits	Major	Gen Ed		Credits	Major	Gen Ed
PHY 350 Electricity & Magnetism I	3	X		PHY 351 Electricity & Magnetism II	3	X	
PHY 335, 360, or 455^^	3	X		PHY 335, 360, or 455^^	3	X	
PHY 450 Optics & Electromagnetic Waves	3	X		STEM Elective [300/400 level]	3	X	
General Elective*	3			General Elective*	3		
General Elective*	3			General Elective*	3		
Apply for Spring graduation by the middle of this term							
Semester Total	15			Semester Total	15		
Degree Total (as listed in above sample): 120 (120 hours minimum required to earn degree)							

Assumptions: college-level readiness in MTH & ENG; no Foreign Language Deficiency

College/ Program Notes:

The plan above is a suggested guide to ensure that all General Education, College, University, and Major requirements are met within 4 years of study. Students may deviate from the suggested placement of Gen Ed courses, although the M/QL and W/C requirements should be completed during the first year of study.

*General Electives ensure that a student accumulates the minimum credit hour totals needed for graduation. Students must have a **minimum of 120 total credit hours**, of which a **minimum of 42 credit hours** must be upper division (300 or 400-level courses). Depending upon elective choices made, students may not need as many electives as indicated above, or may need additional electives.

^CIS 260, ESC 151, ESC 152, or MTH 311 may be used as substitutes.

^^Choose two courses from the following: PHY 335, 360, or 455.

University Notes:

Gen Ed Key:	SS = Social Sciences (two courses from different departments)** A&H = Arts & Humanities (two courses from different departments)** DIV = Social Diversity (two courses; one US Diversity and one African American Experience) WAC/SPAC = Writing/Speaking Across the Curriculum (three courses, one in the major; C or better required) CAP = Capstone ** of the four total SS and A&H courses, one must be focused on Africa, Latin America, Asia or the Middle East (ALAAME)
INTRO = Introduction to University Life (one course)	
W/C = Writing/Composition (two courses; C or better required)	
M/QL = Mathematics/Quantitative Literacy (two courses)	
NS = Natural Sciences (two courses, one of which must have a lab)	

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