

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

First Year

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
ASC 101 Introduction to University Life	1		INTRO	PHY 243 University Physics I	5	X	NS,WAC
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
CIS 260 Intro Programming^	4	X		ENG 102 English II	3		W/C
US Diversity Elective	3		DIV				
<i>Semester Total</i>	<i>15</i>			<i>Semester Total</i>	<i>15</i>		

Second Year

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
PHY 244 University Physics II	5	X	NS,WAC	PHY 330 Intro Modern Physics	3	X	
MTH 281 Multivariable Calculus	4	X		Writing Across the Curriculum Elective	3		WAC
African American Experience Elective	3		DIV	PHY 325 Intro Theoretical Physics	3	X	
Social Science Elective**	3		SS	General Elective*	3		
				STEM Elective [300/400 level]	3	X	
<i>Semester Total</i>	<i>15</i>			<i>Semester Total</i>	<i>15</i>		

Third Year

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
PHY 320 Intro Computational Physics	3	X		Arts and Humanities Elective**	3		A&H
PHY 340 Mechanics and Vibrations I	3	X		PHY 341 Mechanics and Vibrations II	3	X	
PHY 474 Thermal Physics	4	X	CAP	PHY 440 Quantum Physics I	3	X	
Arts and Humanities Elective**	3		A&H	PHY 475 Statistical Physics	3	X	
General Elective*	2			General Elective*	3		
<i>Semester Total</i>	<i>15</i>			<i>Semester Total</i>	<i>15</i>		

Fourth Year

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
PHY 350 Electricity & Magnetism I	3	X		PHY 351 Electricity & Magnetism II	3	X	
PHY 360 Electronics Lab	3	X		PHY 455 Optics Lab	3	X	
PHY 450 Optics & Electromagnetic Waves	3	X		Physics Elective [300/400 level]	3	X	
General Elective*	3			General Elective*	3		
General Elective*	3			General Elective*	3		
Apply for Spring graduation prior to Sep 9th							
<i>Semester Total</i>	<i>15</i>			<i>Semester Total</i>	<i>15</i>		

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.

^CIS 260 can be substituted with ESC 151 or ESC 152. However, students should note that CIS 260 is 4 credit hours, while ESC 151 and 152 are 3 credit hours. CIS 260 pre-requisite is waived for PHY majors.

*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.

University Notes:

Gen Ed Key:	
INTRO = Introduction to University Life (one course)	SS = Social Sciences (two courses from different departments**)
W/C = Writing/Composition (two courses; C or better required)	A&H = Arts & Humanities (two courses from different departments**)
M/QL = Mathematics/Quantitative Literacy (two courses)	DIV = Social Diversity (two courses; one US Diversity and one African American Experience)
NS = Natural Sciences (two courses, one of which must have a lab)	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)

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