

Cleveland State University
College of Science and Health Professions
Bachelor of Science in Physics
New for 2019-20

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 prior to Sep 9th							
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:

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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