

Cleveland State University
College of Arts and Sciences
Bachelor of Arts in Physics + Computer Science
New for 2024-2025

First Year								
Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed	
ASC 101 or ESC 100 Intro to University Life	1		Intro	ENG 102 College Writing II or ESC 102 Tech. Writing	3		W/C	
ENG 101 College Writing I	3		W/C	MTH 182 Calculus II	4	X	M/QL	
MTH 181 Calculus I	4	X	M/QL	PHY 241/243/243H University Physics I	5	X	NS/WAC	
CIS 151 Invitation to Computing	3	X		CIS 260 Introduction to Programming	4	X		
Social Science Elective**	3		SS					
<i>Semester Total</i>	14			<i>Semester Total</i>	16			

Second Year								
Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed	
PHY 242/244/244H University Physics II	5	X	NS/WAC	CIS 335 Language Processors	3	X		
CIS 265 Data Structures & Algorithms	4	X		CIS 340 Systems Programming	3	X		
PHL 216 Data Ethics	3	X	A&H/WA	MTH 288 Linear Algebra	3	X		
MTH 220 Intro to Discrete Math	3	X		Social Diversity Elective	3		DIV-AA	
				General Elective*	3			
<i>Semester Total</i>	15			<i>Semester Total</i>	15			

Third Year								
Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed	
PHY 320 Intro to Computational Physics	3	X		PHY 300/400 Level Elective^	3			
PHY 330 Intro to Modern Physics	3	X		PHY 300/400 Level Elective^	3			
PHY 300/400 Level Elective^	3	X		CIS 300/400 Level Elective	3			
CIS 390 Introduction to Algorithms	3	X		Social Science Elective	3		SS	
General Elective*	3			Arts and Humanities Elective**	3		A&H	
<i>Semester Total</i>	15			<i>Semester Total</i>	15			

Fourth Year								
Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed	
PHY 493 Advanced Topics in Physics	2	X		PHY 493 Advanced Topics in Physics	2	X		
PHY 300/400 Level Elective^	3			PHY 498 Senior Project	1	X	CAP	
PHY 300/400 Level Elective^	3			CIS 300/400 Level Elective	3			
CIS 300/400 Level Elective	3			Social Diversity Elective	3		DIV-US	
General Elective* (WAC if needed)	3		WAC	General Elective* (WAC if needed)	3		WAC	
General Elective*	1			General Elective*	3			
Apply for Spring graduation by the middle of this term								
<i>Semester Total</i>	15			<i>Semester Total</i>	15			
Credit Total: 120 (minimum 120 required for degree)								

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.

This plan assumes college-level readiness in English, that Foreign Language Deficiency requirements have been met, and that students are immediately eligible for Calculus I.

Gen Ed Key:	
INTRO = Introduction to University Life Requirement (one course)	SS = Social Sciences Requirement (2 courses from different departments**)
W/C = Writing/Composition Requirement (2 courses; C or better required)	A&H = Arts & Humanities Requirement (2 courses from different departments**)
M/QL = Mathematics/Quantitative Literacy Requirement (2 courses)	DIV = Social Diversity Requirement (one US Diversity & one African American Exp.)
NS = Natural Science (2 courses, one of which must have a lab)	WAC/SPAC = Writing/Speaking Across the Curriculum (3 courses, one in major)
	CAP = Capstone Requirement

* General Electives ensure that a student accumulates the minimum 120 required credit hours for graduation. Of these 120 credit hours, a minimum of 36 credit hours must be upper division (300 or 400-level courses).

** Of the SS and A&H courses, one must be focused on Africa, Latin America, or the Middle East

^At least one of the PHY 300/400 level electives must be a lab course (PHY 335, 461, or 455)

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