Cleveland State University

Bachelor of Science in Computer Science and Physics

Name _____   **I.D. No.**_____

Curriculum Sheet (Effective Fall 2024)

First Year

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

Second Year

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
CIS 265 Data Structures & Algorithms	4	X		General Elective	3		
PHY 242/244/244H University Physics	5	X	NS	MTH 288 Linear Algebra	3	X	
PHL 216 Data Ethics**	3	X	A&H/WAC	CIS 335 Language Processor	3	X	
MTH 220 Intr. to Discrete Mathematic	3	X		Social Diveristy African-American	3		DIV
				CIS 340 Systems Programming	3	X	
Semester Total	15			Semester Total	15		

Third Year

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
General Elective	3			CIS Elective 300-400	3	X	
CIS 390 Introduction to Algorithms	3	X		CIS Elective 300-400	3	X	
PHY 330 Introduction to Modern Phys	3	X		PHY Elective 300-400	3	X	
PHY 320 Introduction to Computation	3	X		PHY Elective 300-400	3	X	
PHY Elective 300-400***	3	X		Arts & Humanities**	3		A&H
Semester Total	15			Semester Total	15		

Fourth Year

Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed
PHY 493 Advanced Topics	2	X		PHY 498 Project + PHY 493 Advanced	3	X	CAP
PHY Elective 300-400	3	X		General Elective	3		
PHY Elective 300-400	3	X		General Elective	3		
CIS Elective 300-400	3	X		Social Science**	3		SS
General Elective	3			U.S. Diversity	3		DIV
General Elective	1						
Semester Total	15			Semester Total	15		

Degree Total hours: 120 hours

...dits of the PHY Electives need to be a lab course (PHY335, 461, 455)

Gen Ed Key:

INTRO = Introduction to University Life Requirement (one course)
W/C = Writing/Composition Requirement (two courses; **C or better** require
M/QL = Mathematics/Quantitative Literacy Requirement (two courses)
NS = Natural Sciences (two courses, one of which must have a lab)

SS = Social Sciences Req (2 courses, one of which must be focused outside the US**)
A&H = Arts & Humanities Requirement (2 courses, one must be focused outside the US**)
DIV = Social Diversity Req (2 courses; one US Diversity and one African American Exp.)
WAC/SPAC = Writing/Speaking Across the Curriculum Req (3 courses, one in the major)
CAP = Capstone Requirement

* ESC 100 is waived for transfer students.
** of the SS and A&H courses focused outside the US, one must be focused on Africa, Latin America, Asia or the Middle East (ALAAME)

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