Cleveland State University

Bachelor of Science in Computer Science and Electrical Engineering

Name _____   I.D. No._____

Curriculum Sheet (Effective Fall 2024)

First Year

Fall Semester	Credits	Grade	Gen Ed	Spring Semester	Credits	Grade	Gen Ed
ENG 100 Intensive Writing or ENG 101	3		W/C	MTH 182 Calculus II	4		M/QL
MTH 181 Calculus I	4		M	PHY 244 University Physics II	5		NS/WAC
PHY 243 University Physics I	5		NS/WAC	ESC 120 Introduction to Engineering D	2		
ESC 100 Orientation*	1		INTRO	MTH 220 Discrete Math	3		
ESC 151 –C Programming/CIS 151 Invitation	3			CIS 260 Introduction to Programming	4		
Semester Total	16			Semester Total	18		

Second Year

Fall Semester	Credits	Grade	Gen Ed	Spring Semester	Credits	Grade	Gen Ed
ESC 250 Differential Equations	3			EEC 311 Electric Circuits II	4		
ESC 310 Eng Prob Statics	3			General Education Elective	3		DIV US
EEC 310 Electric Circuits I	4			EEC 313 Electronics I	3		
CIS 265 Data Strcucture and Algorithm	4			EEC 315 Electronics Lab	2		
ESC 102 Tech. Writing or ENG 102 English II	3		W/C	CIS 335 Language Processor	3		
Semester Total	17			Semester Total	15		

Third Year

Fall Semester	Credits	Grade	Gen Ed	Spring Semester	Credits	Grade	Gen Ed
CIS 390 Introduction to Algorithms	3			EEC 384 Digital Systems Lab	2		
CIS 480 Com Archite	3			ESC 350 Linear Algebra for Engineers	3		
EEC 383 Digital Systems	3			EEC 440 Control Systems	3		
EEC 318 Anls, Dsgn & Sim of Dyn Stms	3			Arts & Humanities**	3		A&H
CIS 340 Systems Programming	3			CIS 345 Operating Systems	3		
Semester Total	15			Semester Total	14		

Fourth Year

Fall Semester	Credits	Grade	Gen Ed	Spring Semester	Credits	Grade	Gen Ed
CIS/EEC 493 Design Proj I	2		CAP & WA	CIS/EEC 494 Design Proj II	3		CAP
ESC 282 Engineering Economy	3		SS	PHL 215 Engineering Ethics	3		AH & WAC
General Education Elective	3		DIV AA	CIS or EEC Elective	3		
General Education Elective	3		SS	CIS or EEC Elective	3		
EEC 417 Embeded Systems	3			CIS or EEC Elective	3		
Semester Total	14			Semester Total	15		
		Degree Total hours: 124					

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)
* 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)

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