Cleveland State University Washkewicz College of Engineering and College of Arts & Sciences Bachelor of Science in Computer Science and Design (Effective Fall 2025)

First Year							
Fall Semester	Credits	Major	СС	Spring Semester	Credit s	Major	S
ENG 100 Intensive College Writing or ENG 101 College Writing I	3		FYV	ENG 102 College Writing II or ESC 102 Technical Writing	3		RPW
MTH 148 Business Math I OR MTH 181 Calculus I	3 or 4		FQR	MTH 149 Business Math II or MTH 182 Calculus II	4		DDL/ FQR
CIS 151 Invitation to Computing	3	Χ		CIS 260 Introduction to Programming	4	Χ	
ART 244 Introduction to Visual Technology	3	Χ		ART 242 Introduction to Typography	3	Х	
Inquiry Launch (CC)	3		IL				
Semester Total	15 or 16			Semester Total	1	4	

Second Year							
Fall Semester	Credits	Major	Spring Semester Cress		Credit s	Major	СС
CIS 265 Data Structures & Algorithms	4	Х		CIS 340 Systems Programming	3	Χ	
ART 346 Human Centered Graphic Design	3	Χ		CIS 390 Introduction to Algorithms	3	Χ	
ART 347 Intermediate Visual Technology-Web	3	3 X PHL 215 Technology Ethics (OR) PHL 216 A & Data Ethics		3		нсс	
MTH 220 Intro to Discrete Math	3			ART 342 Advanced Typography	3	Χ	
American Civic Literacy (CC)	3		ACL	ESC 282 Engineering Economy	3	Χ	
ESC 130 Engineering & Computer Science Career Preparation*	1						
Semester Total	17			Semester Total	15		

Third Year							
Fall Semester	Credits Major		СС	Spring Semester		Major	СС
CIS 345 Operating Systems	3	Х		CIS 430 Database Concepts	3	Х	
CIS 424 Comparative Program Language	3	3 X CIS 434 Software Engineering		3	Х		
ART 447 User Experience/User Interface Design (UX/UI)	3	Χ		CIS 454 Data Communication & Networking	3	Χ	
CIS 402 CS Technical Writing	2	Х	WAC	ART 348 Intermediate Visual Technology-Motion	3		
Science Inquiry (CC)	3	3 SI Society and Human Behavior (CC)		3		SHB	
Science Investigations (CC)	1		SIL				
Semester Total	15			Semester Total	15		

Fourth Year								
Fall Semester	Credits	Major	СС	Spring Semester	Credits	Major	СС	
ART 343 Data Visualization & Info Design	3	Χ		Senior Capstone ART 450 or CIS 492	3	Χ	CAP	
Global Human Perspectives (CC)	3	3 GHP General Elective 3 X		Χ				
Science Inquiry (CC)	3	3 SI Complexities of Pluralistic Society (CC) 3		3		CPS		
General Elective	3			General Elective 3			WAC	
General Elective	3			General Elective 3				
Semester Total	15	5		Semester Total	15	5		
Total Degree Hours: 121-122 including optional 1 credit ESC 130 course								

^{*}ESC 130 Engineering & Computer Science Career Preparation is an optional course for the interested students

The plan above is a suggested guide to ensure that all Core Curriculum, College, University, and Major requirements are met within 4 years of study. Students may deviate from the suggested placement of Core Curriculum courses, although some requirements need to be completed during the first year.

Students must have a minimum of 121 (or 122 including ESC 130) total credit hours.

Core Curriculum Key:		
IL = Inquiry Launch	HCC = Human Culture and Creativity	SI = Scientific Inquiry
FYV = Finding Your Voice	GHP= Global Human Perspectives	SIL = Scientific Investigations Lab
RPW = Research & Professional Writing	WAC = Writing Across the Curriculum Req	CPS = Complexities of Pluralistic Society
ACL = American Civic Literacy	CAP = Capstone Requirement	DDL= Data & Digital Literacy
FQR = Formal & Quantitative Literacy	SHB = Society & Human Behavior	

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