

ID: _____ Name: _____ Phone: _____
 Advisor: _____ Email: _____

COMPUTER SCIENCE + DESIGN BS REQUIREMENTS *(beginning Fall 2024)*
 INTEGRATED DEGREE

56 semester hours required in-major *(Transfer Students: The smaller of 16 credits or 50 percent of the departmental credits comprising a major must be earned in residence at Cleveland State.)*

Course Type	Course Title	Course Number	Semester Completed	Grade Earned	
2 Design Foundations Classes	Introduction to Visual Technology*	ART 244	_____	_____	<input type="checkbox"/>
	Introduction to Typographic Principles and Design	ART 242	_____	_____	<input type="checkbox"/>
<i>* ART 244 is a prerequisite for ART 242.</i>					
3 Computer Science Foundations Classes	Invitation to Computing	CIS 151	_____	_____	<input type="checkbox"/>
	Introduction to Programming	CIS 260	_____	_____	<input type="checkbox"/>
	Data Structures & Algorithms	CIS 265	_____	_____	<input type="checkbox"/>
6 Required Design Classes	Advanced Typography	ART 342	_____	_____	<input type="checkbox"/>
	Intermediate Visual Technology: Web	ART 347	_____	_____	<input type="checkbox"/>
	Intermediate Visual Technology: Motion	ART 348	_____	_____	<input type="checkbox"/>
	Data Visualization and Information Design	ART 343	_____	_____	<input type="checkbox"/>
	Human-Centered Graphic Design	ART 346	_____	_____	<input type="checkbox"/>
	User Experience Design/User Interface Design (UX/UI)	ART 447	_____	_____	<input type="checkbox"/>
<i>ART 244 & ART 242 are prerequisites for all 300/400 level Design courses.</i>					
7 Required Computer Science Classes	Systems Programming	CIS 340	_____	_____	<input type="checkbox"/>
	Operating Systems	CIS 345	_____	_____	<input type="checkbox"/>
	Introduction to Algorithms	CIS 390	_____	_____	<input type="checkbox"/>
	Comparative Programming Languages	CIS 424	_____	_____	<input type="checkbox"/>
	Data Base Concepts	CIS 430	_____	_____	<input type="checkbox"/>
	Software Engineering	CIS 434	_____	_____	<input type="checkbox"/>
	Computer Networks	CIS 454	_____	_____	<input type="checkbox"/>
4-5 Elective Classes	_____	_____	_____	_____	<input type="checkbox"/>
	_____	_____	_____	_____	<input type="checkbox"/>
	_____	_____	_____	_____	<input type="checkbox"/>
	_____	_____	_____	_____	<input type="checkbox"/>
	_____	_____	_____	_____	<input type="checkbox"/>
	ART 327 - Intermediate Visual Technology: 3D Modeling	CIS 335 - Language Processors			
	ART 390 - Internship	CIS 368 - Object Oriented Design & Programming			
	ART 436 - Digital Art	CIS 457 - Computer Graphics			
	ART 448 - Motion Graphics and Animation	CIS 470 - Mobile Application Development			
		CIS 475 - Computer Security			
	CIS 492 - Special Topics in Computer Science				
<i>(ART, CIS, or EEC courses recommended)</i>					
1 Capstone	ART 450 - Design Capstone	_____	_____	_____	<input type="checkbox"/>
	CIS 492 - Special Topics in Computer Science	_____	_____	_____	<input type="checkbox"/>

Students may choose one of the two capstone options.