

Cleveland State University
College of Arts & Sciences and Washkewicz College of Engineering
Bachelor of Arts Music and Computer Science
Music + Computer Science Degree Map (Effective Spring 2025)

First Year								
Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed	
ENG 100 Intensive College Writing or ENG 101 College Writing I	3		W/C	ENG 102 College Writing II or ESC 102 Technical Writing	3		W/C	
MTH 148 Business Math I OR MTH 181 Calculus I	3 or 4	X	M/QL	MTH 149 Business Math II or MTH 182 Calculus II	4		M/QL	
Arts & Humanities Gen. Ed Elective	3	X	A&H	African American Exp. Gen. Ed. Elective	3	X	DIV	
CIS 151 Invitation to Computing	3			CIS 260 Introduction to Programming	4	X		
ESC 100 or ASC 101 Orientation to Univ. Life	1		INTRO					
Semester Total	13 or 14			Semester Total	14			

Second Year								
Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed	
CIS 265 Data Structures & Algorithms	4	X		Social Sciences Gen. Ed. Elective**	3		SS	
MUA Lesson or MUS Ensemble	1	X		MUS 428 Music and Media	3	X		
MUS 427 Music Production	3	X		MUA Lesson or MUS Ensemble	1	X		
MTH 220 Intro to Discrete Math	3	X		General Elective	3			
MUS 235 Harmony/Form/Technique Jazz/Pop I	3			MUS 236 Jazz & Pop Harmony & Form II	3			
ESC 130 Career Prep Course	1			Science Lecture Elective	3		NS	
Semester Total	15			Semester Total	16			

Third Year								
Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed	
CIS 340 Systems Programming	3	X		CIS 345 Operating Systems	3	X		
CIS 390 Introduction to Algorithms	3	X		CIS 434 Software Engineering	3	X		
MUS 117 Keyboard Skills	2	X		MUS 118 Keyboard Skills	2	X		
MUS 261 Evolution of Popular Music	3	X		General Elective	3		WAC	
EEC 414 Technical Communication	2		WAC	MUA Lesson or MUS Ensemble	1	X		
Arts & Humanities Gen. Ed. Elective	3		WAC + A&H	MUA Lesson or MUS Ensemble	1	X		
				Social Science Gen Ed. Elective**	3		SS	
Semester Total	16			Semester Total	16			

Fourth Year								
Fall Semester	Credits	Major	Gen Ed	Spring Semester	Credits	Major	Gen Ed	
General Elective*	3	X		CIS 492 Special Topics in Computer Science	3	X	CAP	
Advanced Music Elective	3	X		CIS 424 Programming Languages	3	X		
MUA Lesson or MUS Ensemble	1	X		MUA Lesson or MUS Ensemble	1	X		
Natural Science Elective Lecture	3		NS	Advanced Music Elective	3	X		
Natural Science Elective Lab	1		NS LAB	U.S. Diversity Gen. Ed. Elective	3		DIV	
General Elective	3			General Elective	3			
Semester Total	14			Semester Total	16			

Total Degree Hours: 120 or 121

Assumption: University Requirement of Foreign Language has been met by either successfully completing two (2) years of the same language in high school; or two (2) semesters of the same language in college; or passing CSU's language placement test in reading, writing, and speaking of a second language other than English.

College/Program Notes: 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 need to be completed during the first year. General Electives ensure that a student accumulates the minimum credit hour totals needed for graduation. Students must have a **minimum of 120 total credit hours**. Depending upon elective choices made, students may not need as many electives as indicated above or may need additional electives.

General Education Key + Notes

Intro = Introduction to University Life Requirement (one course required)	SS = Social Sciences Requirement (2 courses required, one of which must be focused outside the US)
W/C = Writing/Composition Requirement (two courses, each C or better required)	A&H = Arts & Humanities Requirement (2 courses required, one of which must be focused outside the US)
M = Mathematics (two courses required, each C or better)	DIV = Social Diversity Requirement (2 courses required, one US Diversity and one African American Experience)
NS = Natural Sciences (two courses required, one of which must have a lab – NS&LAB)	WAC/SPAC = Writing/Speaking Across the Curriculum Requirement (3 courses required, one in the major)
ESC 100 = waived for transfer students with 60 credits or more	CAP = Capstone topic needs to be a combination of Music and Computer Science.
*Of the SS and A&H courses, at least one must be focused on Africa, Latin America, Asia or the Middle East (ALAAME)	

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Last Updated December 9, 2024

Description

The integrated BA degree in English + Computer Science offers an interdisciplinary experience for students that merges literature, research, writing, and rhetoric, with theoretical and mathematical foundations of computing. The integrated degree offers students an opportunity to gain skills, knowledge, and experience in two areas (English and Computer Science), which is a growing necessity for employability in 2023 and beyond.

What careers can this major prepare you for?

Students who graduate with a Bachelor of Arts degree in English + Computer Science can work in a variety of interdisciplinary contexts such as software development, quality assurance, testing, content management, social media consulting, web design, technical documentation, user-experience analysis, mobile app design, and government positions in computer information and research. The interdisciplinary nature of the degree allows for a wide range of career opportunities.

What skills are developed within this major?

Students learn a variety of skills from each core of the degree (English and Computer Science). English courses provide students with the abilities to do the following: write clearly, effectively, and persuasively; formulate a research project that investigates a substantial issue; conduct research using multiple sources; analyze language and writing to understand their formal, cultural, and historical dimensions; employ critical thinking to develop and advance an independent argument; report research findings effectively in an oral presentation. In Computer Science courses, students learn to apply principles of mathematics and science in a variety of contexts. They hone their ability to use the techniques, skills, and tools necessary for science and computing practice, as well as design and conduct experiments and analyze and interpret data.

Admission to the major

- Admission to College of Arts and Sciences

Hours required to complete the degree:

- Minimum hours required for degree: 120 credits
 - Minimum hours for the major: 56 credits

Required Core English Courses (minimum 5 courses) - 15 credits

These courses are required for all English + Computer Science majors: All students are required to complete the following courses with a grade of “C” or higher. [ENG 306](#) is a pre-requisite for all 300 and 400-level literature and creative writing classes.

- ENG 306 Literary Analysis (3 credits)
- ENG 301/506 Digital Writing and Technologies (3 credits)
- ENG 310 Traditional Grammar (3 credits)
- ENG 400 Critical Research Methods (3 credits)
- ENG 495 Senior Seminar (3 credits)

English Elective Courses (minimum 4 courses) - 12 credits

One 200-level elective course and three 300/400-level elective courses are required.

- ï ENG 221 British Literature 1 (3 credits)
- ï ENG 222 British Literature 2 (3 credits)
- ï ENG 231 American Literature 1 (3 credits)
- ï ENG 232 American Literature 2 (3 credits)
- ï ENG 203 Creative Writing Form and Techniques (3 credits)
- ï ENG 301 Advanced Topics in Writing and Rhetoric (3 credits)
- ï ENG 308 Composition Theory for Teachers (3 credits)
- ï ENG 315 Introduction to the English Language (3 credits)
- ï ENG 332 Studies in Renaissance Literature (3 credits)
- ï ENG 333 Studies in 18th Century British Literature (3 credits)
- ï ENG 334 Studies in 19th-Century British Literature (3 credits)
- ï ENG 345 Studies in American Literature (3 credits)
- ï ENG 347 Studies in African-American Literature (3 credits)
- ï ENG 348 Studies in Multicultural Literature (3 credits)
- ï ENG 355 Major Genre/Study in Genre (3 credits)
- ï ENG 358 Studies in Early American Literature (3 credits)
- ï ENG 359 Studies in Late American Literature (3 credits)
- ï ENG 363 Gender Issues in Literature (3 credits)
- ï ENG 364 Popular Culture (3 credits)
- ï ENG 370 Chaucer (3 credits)
- ï ENG 371 Shakespeare I (3 credits)
- ï ENG 372 Shakespeare II (3 credits)
- ï ENG 382 Canonicity (3 credits)
- ï ENG 391 Intermediate Fiction Workshop (3 credits)
- ï ENG 392 Intermediate Creative Non-Fiction Workshop (3 credits)
- ï ENG 393 Intermediate Playwriting Workshop (3 credits)
- ï ENG 394 Intermediate Poetry Workshop (3 credits)
- ï ENG 491 Advanced Fiction Workshop (3 credits)
- ï ENG 492 Advanced Creative Nonfiction Workshop (3 credits)
- ï ENG 493 Advanced Playwriting Workshop (3 credits)
- ï ENG 494 Advanced Poetry Workshop (3 credits)
- ï ENG 497 Literary Editing and Publishing (3 credits)

Required Math and Computer Science Pre-Requisites (10 or 11 credits)

- ï MTH 148 Mathematics for Business Majors I or MTH 181 Calculus I (pre-requisite) (3 or 4 credits) (general education requirement)
- ï MTH 149 Mathematics for Business Majors II or MTH 182 Calculus II (pre-requisite) (4 credits) (general education requirement)
- ï MTH 220 Introduction to Discrete Mathematics (3 credits)

Required Core Computer Science Courses (minimum 7 courses) -23 credits

These courses are required for all English + Computer Science majors:

- ï CIS 151 Invitation to Computing (3 credits) OR ESC 151 C Programming (3 credits)
- ï CIS 260 Introduction to Programming (4 credits)
- ï CIS 265 Data Structures and Algorithms (4 credits)

- ï CIS 335 Language Processors (3 credits)
- ï CIS 390 Introduction to Algorithms (3 credits)
- ï CIS 467 - Artificial Intelligence (3 credits)
- ï CIS 492 - Special Topics in Computer Science (3 credits)

Computer Science Elective Courses (minimum 2 courses) - 6 credits

Three elective courses in Computer Science are required.

- ï CIS 368 - Object Oriented Design and Programming (3 credits)
- ï CIS 408 - Internet Programming (3 credits)
- ï CIS 424 - Comparative Program Languages (3 credits)
- ï CIS 430 - Data Base Concepts (3 credits)
- ï CIS 434 - Software Engineering (3 credits)

Honors Program/University Scholars Requirements

Honors/Scholars students majoring in English + Computer Science must complete

- ï at least 12 of their upper-level course credits as designated Honors credits
- ï ENG 496H, Honors research project (3 credits)

The 12 Honors credits may be graduate courses and/or Honors Contract courses equally divided between English and Computer Science:

- ï Graduate Course options: Any 500-level English or Computer Science graduate course for which the student has the prerequisites.
- ï Honors Contract options: Honors Contracts may be added to most 300-level or 400-level English or Computer Science courses. Students must reach out to the course instructor before the start of the semester to agree on an additional project, which may be more creative and/or experience-based than the rest of the coursework. Students will then record the agreement through the Honors Contract agreement form: <https://honors.csuohio.edu/current-students/forms-3>

ENG 496H

All Honors/Scholars students in the B.A. in English + Computer Science program are required to complete an Honors research project in their senior year (ENG 496H), as a culmination of their Honors experience. This project should represent the work and interest of the student and integrate English and Computer Science. Students completing this requirement should register for ENG 496H, supervised by a faculty member of the department English. A faculty member in Computer Science should also approve this project, at conception and completion.

Academic Plan

Students will consult with the Honors departmental faculty advisors in English and Computer Science, ideally in the spring of their sophomore year, to formulate an academic plan, in consultation with their Honors College advisor.

Bachelor of Arts in English and Computer Science

Name _____

I.D. No. _____

ENGLISH + COMPUTER SCIENCE DEGREE MAP (Effective Fall 2024)

First Year

Fall Semester		Credits	Major	Gen Ed	Spring Semester		Credits	Major	Gen Ed
ENG 100/101 College Writing I	3		W/C	ENG 102 College Writing II	3		W/C		
MTH 148 Mathematics for Business M	3 or 4	X	M/QL	Natural Science Lecture Elective + Lab	4		NS + NS Lab		
CIS 151 Invitation to Computing OR ES	3	X		Foreign Language	3	X			
Arts & Humanities Elective (ALAAME)	3		A&H	CIS 260 Introduction to Programming	4	X			
ESC 100 or ASC 101 Orientation*	1		INTRO	MTH 149 Mathematics for Business M	4		M/QL		
Semester Total		13 or 14		Semester Total		18			

Second Year

Fall Semester		Credits	Major	Gen Ed	Spring Semester		Credits	Major	Gen Ed
CIS 265 Data Structures & Algorithms	4	X		Social Sciences Electives	3		SS		
Natural Science Lecture Elective	3		NS	ENG 200-level elective	3	X	E		
Social Science (ALAAME)**	3		SS	African American Experience	3		AAE		
ENG 306 Literary Analysis	3	X		CIS 390 Introduction to Algorithms	3	X			
MTH 220 Introduction to Discrete Ma	3	X	M/QL	Arts & Humanities Elective**	3		A&H		
Semester Total		16		Semester Total		15			

Third Year

Fall Semester		Credits	Major	Gen Ed	Spring Semester		Credits	Major	Gen Ed
Upper level CIS (408, 424,430, 434, 49	3	X		Foreign Language	3	X			
CIS 467 Artificial Intelligence	3	X		General Elective* 300/400 level	3				
ENG 301/506: Digital Writing and Tec	3	X		CIS 335 Language Processors	3	X			
General Elective* 300/400 level	3		A&H/WA	ENG 310 Traditional Grammar	3	X			
				ENG Elective 300/400-level	3	X			
Semester Total		12		Semester Total		15			

Fourth Year

Fall Semester		Credits	Major	Gen Ed	Spring Semester		Credits	Major	Gen Ed
CIS 492 Special Topics in Comp Sci	3	X		Upper level CIS (368, 408, 424,430, 4	3	X			
ENG 400 Critical Research Methods	3	x		ENG 495 Senior Seminar	3	X	CAP		
ENG Elective 300/400 level	3	x		ENG Elective 300/400-level	3				
General Elective 300/400 level	3			General Elective 300-400	3				
General Elective	3 or 4			U.S. Diversity	3		DIV		
Semester Total		15 or 16		Semester Total		15			

Degree Total hours: 120

Gen Ed Key:

SS = Social Sciences Req (2 courses, one of which must be focused outside the US**)

INTRO = Introduction to University Life Requirement (one course)

A&H = Arts & Humanities Requirement (2 courses, one must be focused outside the US**)

W/C = Writing/Composition Requirement (two courses; C or better)

DIV = Social Diversity Req (2 courses; one US Diversity and one African American Exp.)

M/QL = Mathematics/Quantitative Literacy Requirement (two courses)

WAC/SPAC = Writing/Speaking Across the Curriculum Req (3 courses, one in the major)

NS = Natural Sciences (two courses, one of which must have a lab)

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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