

COMPUTER SCIENCE - B.A.

College of Arts and Sciences
Department of Computer Science
www.kent.edu/cs

Contact Information

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- Speak with an Advisor
 - Kent Campus
 - Stark Campus
- Chat with an Admissions Counselor

Fully Offered

- **Delivery:**
 - In person
- **Location:**
 - Kent Campus
 - Stark Campus

Description

The Bachelor of Arts degree in Computer Science is designed for students who seek a liberal arts education combined with a solid foundation in computer science. Students may choose electives from any complementary liberal arts program beyond computer science.

Students have the option to have a double major to attain depth of knowledge across two related areas.

Admission Requirements

The university affirmatively strives to provide educational opportunities and access to students with varied backgrounds, those with special talents and adult students who graduated from high school three or more years ago.

First-Year Students on the Kent Campus: First-year admission policy on the Kent Campus is selective. Admission decisions are based upon cumulative grade point average, strength of high school college preparatory curriculum and grade trends. Students not admissible to the Kent Campus may be administratively referred to one of the seven regional campus to begin their college coursework. For more information, visit the admissions website for first-year students.

First-Year Students on the Regional Campuses: First-year admission to Kent State's campuses at Ashtabula, East Liverpool, Geauga, Salem, Stark, Trumbull and Tuscarawas, as well as the Twinsburg Academic Center, is open to anyone with a high school diploma or its equivalent. Check with a regional campus admissions office to determine application requirements, as they may differ among campuses.

International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 75 MELAB score, minimum 6.0 IELTS score, minimum 48 PTE score or minimum 100 DET score; or by completing the ESL level 112

Intensive Program. For more information, visit the admissions website for international students.

Transfer Students: For more information, visit the admissions website for transfer students.

Former Students: Former Kent State students or graduates who have not attended another college or university since Kent State may complete the reenrollment or reinstatement form on the University Registrar's website.

Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the essential facts, concepts, principles and theories relating to computer science.
2. Apply computer science concepts to solve computer-related problems.
3. Analyze algorithms, computer science methods and techniques.
4. Analyze and plan the development of a typical professional computer science problem.
5. Make succinct oral presentations and written expositions about technical problems and their solutions.
6. Work effectively as a member of a software development team.

University Requirements

All students in a bachelor's degree program at Kent State University must complete the following university requirements for graduation.

NOTE: University requirements may be fulfilled in this program by specific course requirements. Please see Program Requirements for details.

Destination Kent State: First Year Experience	1
Course is not required for students with 25 transfer credits, excluding College Credit Plus, or age 21+ at time of admission.	
Diversity Domestic/Global (DIVD/DIVG)	2 courses
Students must successfully complete one domestic and one global course, of which one must be from the Kent Core.	
Experiential Learning Requirement (ELR)	varies
Students must successfully complete one course or approved experience.	
Kent Core (see table below)	36-37
Writing-Intensive Course (WIC)	1 course
Students must earn a minimum C grade in the course.	
Upper-Division Requirement	39
Students must successfully complete 39 upper-division (numbered 30000 to 49999) credit hours to graduate.	
Total Credit Hour Requirement	120

Kent Core Requirements

Kent Core Composition (KCMP)	6
Kent Core Mathematics and Critical Reasoning (KMCR)	3
Kent Core Humanities and Fine Arts (KHUM/KFA) (min one course each)	9
Kent Core Social Sciences (KSS) (must be from two disciplines)	6
Kent Core Basic Sciences (KBS/KLAB) (must include one laboratory)	6-7
Kent Core Additional (KADL)	6
Total Credit Hours:	36-37

Program Requirements

Major Requirements

Code	Title	Credit Hours
Major Requirements (courses count in major GPA)		
CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING (min C grade in all)	4
or CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	
CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION (min. C grade)	4
CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
CS 33101	STRUCTURE OF PROGRAMMING LANGUAGES	3
CS 33211	OPERATING SYSTEMS	3
CS 35101	COMPUTER ORGANIZATION	3
CS 44901	SOFTWARE DEVELOPMENT PROJECT (ELR) (WIC) ¹	4
Computer Science (CS) Upper-Division Electives (30000 or 40000 level) ²		9
Computer Science (CS) Upper-Division Electives (40000 level)		9
Additional Requirements (courses do not count in major GPA)		
UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
Foreign Language (see Foreign Language College Requirement below)		14-16
Kent Core Composition		6
Kent Core Mathematics and Critical Reasoning		3
Kent Core Humanities and Fine Arts (minimum one course from each)		9
Kent Core Social Sciences (must be from two disciplines)		6
Kent Core Basic Sciences (must include one laboratory)		6-7
Kent Core Additional		6
General Electives (total credit hours depends on earning 120 credit hours, including 39 upper-division credit hours)		27
Minimum Total Credit Hours:		120

¹ A minimum C grade must be earned to fulfill the writing-intensive requirement.

² This course can be taken 1-3 credits. Students may apply a maximum of 3 credit hours of CS 33192 to the Computer Science Upper-Division Electives.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
2.000	2.000

- A minimum C grade may be required in some courses

Foreign Language College Requirement, B.A.

Students pursuing the Bachelor of Arts degree in the College of Arts and Sciences must complete 14-16 credit hours of foreign language.¹

To complete the requirement, students need the equivalent of Elementary I and II in any language, plus one of the following options²:

- Intermediate I and II of the same language
- Elementary I and II of a second language
- Any combination of two courses from the following list:

- Intermediate I of the same language
- ARAB 21401
- ASL 19401
- CHIN 25421
- MCLS 10001
- MCLS 20001
- MCLS 20091
- MCLS 21417
- MCLS 21420
- MCLS 22217
- MCLS 28403
- MCLS 28404

¹ All students with prior foreign language experience should take the foreign language placement test to determine the appropriate level at which to start. Some students may start beyond the Elementary I level and will complete the requirement with fewer credit hours and fewer courses. This may be accomplished by (1) passing a course beyond Elementary I through Intermediate II level; (2) receiving credit through one of the alternative credit programs offered by Kent State University; or (3) demonstrating language proficiency comparable to Elementary II of a foreign language. When students complete the requirement with fewer than 14 credit hours and four courses, they will complete remaining credit hours with general electives.

² Certain majors, concentrations and minors may require specific languages, limit the languages from which a student may choose or require coursework through Intermediate II. Students who plan to pursue graduate study may need particular language coursework.

Roadmap

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses designated as critical (!) must be completed in the semester listed to ensure a timely graduation.

Semester One		Credits	
!	CS 13001 or CS 13011 and CS 13012	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING or COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
	UC 10097	DESTINATION KENT STATE: FIRST YEAR EXPERIENCE	1
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours		14	
Semester Two		Credits	
!	CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
	Kent Core Requirement		3
Credit Hours		15	
Semester Three		Credits	
!	CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
!	CS 35101	COMPUTER ORGANIZATION	3

Foreign Language	4
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	17
Semester Four	
! CS 33101 STRUCTURE OF PROGRAMMING LANGUAGES	3
! CS 33211 OPERATING SYSTEMS	3
Computer Science (CS) Upper-Division Elective (30000 or 40000 level)	3
Foreign Language	4
Kent Core Requirement	3
Credit Hours	16
Semester Five	
Computer Science (CS) Upper-Division Electives (30000 or 40000 level)	6
Foreign Language	3
Kent Core Requirement	3
Kent Core Requirement	3
Credit Hours	15
Semester Six	
Computer Science (CS) Upper-Division Elective (40000 level)	3
Foreign Language	3
General Electives	9
Credit Hours	15
Semester Seven	
Computer Science (CS) Upper-Division Elective (40000 level)	3
General Electives	12
Credit Hours	15
Semester Eight	
! CS 44901 SOFTWARE DEVELOPMENT PROJECT (ELR) (WIC)	4
Computer Science (CS) Upper-Division Elective (40000 level)	3
General Electives	6
Credit Hours	13
Minimum Total Credit Hours:	120