

Degrees Available at SIUE

- Bachelor of Arts, Computer Science
- Bachelor of Science, Computer Science

Accelerated Combined Degree

This program provides an accelerated option for qualifying SIUE students who wish to earn simultaneous undergraduate and graduate credit for some courses taken their senior year. Learn more at siue.edu/academics/accelerated-combined-degrees.

Computer Science at SIUE

The Department of Computer Science in SIUE's School of Engineering offers a solid foundation in computing through either a Bachelor of Arts or a Bachelor of Science. A minor in computer science is also available for students who are pursuing other disciplines.

What can I do with a degree in computer science?

Graduates of the computer science program at SIUE will typically find careers as software engineers. However, some pursue careers as research scientists, technology infrastructure specialists or technology consultants. In recent years, 80-90% of graduates have accepted a career position before graduation day. The U.S. Bureau of Labor Statistics predicts that demand and salaries for computer scientists and software engineers will continue to increase in the coming decade.

Hands-On Learning

Students in the computer science program at SIUE are recruited for internship opportunities and co-op programs by large and small companies throughout Illinois, including Chicago, and in the city of St. Louis. Students may also participate in research projects at SIUE through the Undergraduate Research and Creative Activities (URCA) program and/or through independent study courses.

Admission Requirements

To be admitted to the Bachelor of Science or Bachelor of Arts program, students must:

- Complete all academic development courses required by the University
- Complete any courses required to address high school deficiencies
- Complete MATH 120, College Algebra (or high school equivalent) with a grade of C or better
- Attain a cumulative GPA of at least 2.0 (on a 4.0 scale)

Graduation Requirements

- Complete all general education and specific program requirements
- Complete at least 12 hours of computer science credits at SIUE in courses numbered above 299 with a cumulative GPA of 2.0 or above
- Have a GPA of 2.0 or above in all computer science courses numbered above 299
- Complete at least six hours of credit in major courses numbered above 299 at SIUE in the two years preceding graduation
- For BA students, complete an undergraduate minor or second major in another discipline
- File an Application for Graduation by the first day of the term in which you plan to graduate

Contact Information

Department of Computer Science
School of Engineering
Phone: 618-650-2386
Web: cs.siu.edu



Faculty

Dennis Bouvier, PhD

1994, University of Louisiana - Lafayette

Igor Crk, PhD

Department Chair

2010, University of Arizona

Gunes Ercal, PhD

2008, University of California - Los Angeles

Hiroshi Fujinoki, PhD

2001, University of Southern Florida

Thoshitha Gamage, PhD

2011, Missouri University of Science and Technology

Eren Gultepe, PhD

2018, University of Ontario Institute of Technology

Dali Ismail, PhD

2021, Wayne State University

Steven Klein, MS

1999, Southern Illinois University Edwardsville

John Matta, PhD

2018, Southern Illinois University Carbondale

Mark McKenney, PhD

2008, University of Florida

Lori Tetzner, MS

1994, Southern Illinois University Edwardsville

Socratis Tornaritis, MS

1996, Southern Illinois University Edwardsville

Jerry Weinberg, PhD

1996, Vanderbilt University

Xudong Yu, PhD

1992, Vanderbilt University



Sample Curriculum for the Bachelor of Science in Computer Science

Fall Semester

Spring Semester

Year 1	CS 111 Concepts of Computer Science (BICS)	3	CS 150 Introduction to Computing II	3
	CS 140 Introduction to Computing I	4	ENG 102 English Composition II	3
	ENG 101 English Composition	3	RA 101 Reasoning & Argumentation	3
	MATH 150 Calculus I (FQR)	5	MATH 152 Calculus II (BPS)	5
	ACS 103 Interpersonal Communication Skills (EUSC)	3	MATH 224 Discrete Mathematics (BPS)	3
	FST 101 Succeeding & Engaging at SIUE	1	Total Credits	17
Total Credits	19			
Year 2	CS 234 Database and Web System Development	3	CS 286 Intro to Computer Organization & Architecture	3
	CS 240 Introduction to Computing III	3	MATH Elective	3
	Laboratory Science Sequence I (BPS, EL)	4-5	Laboratory Science Sequence II (BPS, EL)	4-5
	Breadth Fine & Performing Arts (BFPA)	3	STAT 380 Statistics for Applications (BICS)	3
	Breadth Humanities (BHUM)	3	Total Credits	13-14
	Total Credits	16-17		
Year 3	CS 321 Human-Computer Interaction Design	3	CS 325 Software Engineering	3
	CS 340 Algorithms and Data Structures	3	CS 360 Ethical and Social Implications of Computing	3
	CS 314 Operating Systems	3	CS 330 Programming Languages	3
	Lab Science Elective	4-5	Breadth Life Science (BLS)	3
	Total Credits	13-14	Interdisciplinary Studies	3
			Total Credits	15
Year 4	CS 425 Senior Project: Software Design	3	CS 499-Senior Project: Software Implementation	3
	CS 447 Networks and Data Communications	3	CS Elective III	3
	CS Elective I	3	CS Elective IV	3
	CS Elective II	3	Breadth Social Science (BSS)/Experience Global Cultures (EGC)	3
	Total Credits	12	Health Experience (EH)	0-3
			Total Credits	12-15
			Total Hours	120

Sample Curriculum for the Bachelor of Arts in Computer Science

Fall Semester

Spring Semester

Year 1	CS 111 Concepts of Computer Science (BICS)	3	CS 150 Introduction to Computing II	3
	CS 140 Introduction to Computing I	4	ENG 102 English Composition II	3
	ENG 101 English Composition	3	RA 101 Reasoning & Argumentation	3
	MATH 125 Pre-calculus with Trigonometry (BPS)	3	MATH 150 Calculus I (FQR)	5
	ACS 103 Interpersonal Communication Skills (EUSC)	3	Breadth Social Science (BSS)	3
	FST 101 Succeeding & Engaging at SIUE	1	Total Credits	17
Total Credits	17			
Year 2	CS 240 Introduction to Computing III	3	CS 234 Database and Web System Development	3
	MATH 224 Discrete Mathematics (BPS)	3	CS 286 Intro to Computer Organization & Architecture	3
	Foreign Language 101	4	Health Experience	0-2
	Breadth Fine & Performing Arts (BFPA)	3	STAT 244 Statistics (BICS)	4
	Breadth Humanities (BHUM)	3	Foreign Language 102 (EGC)	4
	Total Credits	16	Total Credits	14-16
Year 3	CS 321 Human-Computer Interaction Design	3	CS 325 Software Engineering	3
	CS 340 Algorithms and Data Structures	3	CS 360 Ethical and Social Implications of Computing	3
	CS 314 Operating Systems	3	Breadth Life Science (BLS)/Lab Experience (EL)	3
	Fine & Performing Arts or Humanities	3	Interdisciplinary Studies	3
	Unrestricted/Minor Elective	3	Fine & Performing Arts or Humanities	3
	Total Credits	15	Total Credits	15
Year 4	CS 330 Programming Languages	3	CS 499-Senior Project: Software Implementation	3
	CS 425 Senior Project: Software Design	3	CS Elective	3
	CS 447 Networks and Data Communications	3	Fine & Performing Arts or Humanities	3
	Fine & Performing Arts or Humanities	3	Unrestricted/Minor Elective	3
	Unrestricted/Minor Elective	3	Unrestricted/Minor Elective	3
	Total Credits	15	Total Credits	15
			Total Hours	124-126

Transfer Students: To maximize your transfer experience, complete the **bolded** courses/requirements pre-transfer and satisfy either the Illinois Articulation Initiative (IAI) General Ed Core or receive an AA, AS, or AAT (early childhood, special ed or math) degree from an IAI community college. If 'Minor' requirements are shown, discuss careful course selection with the academic advising contact listed. Visit siue.edu/transfer to find course equivalency guides.

This information is concurrent with the 2021-2022 Academic Catalog. Courses are subject to change at any time.