

**Degrees Available at SIUE**

- Bachelor of Arts in Computer Science
- Bachelor of Science in Computer Science
  - Accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET)

**Computer Science at SIUE**

The Bachelor of Arts and Bachelor of Science degrees from the Department of Computer Science in SIUE's School of Engineering provide students with a solid foundation in computing while allowing them to tailor their studies to accommodate their interests. Students in the Department will find flexibility through the selection of technical electives. The Bachelor of Arts program allows students to select any minor offered at SIUE to pair with their major.

**Career Opportunities**

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 to 90 percent of graduates have accepted a career position before graduation day, with an annual starting salary above \$55,000 per year. The U.S. Bureau of Labor Statistics predicts the high demand and elevated salaries for computer scientists and software engineers will continue into the next 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 grade point average (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 grade point average (GPA) of 2.0 or above on a 4.0 scale.
- Have a GPA of 2.0 or above on a 4.0 scale in all computer science courses numbered above 299.
- Complete at least six (6) hours of credit in major courses numbered above 299 at SIUE in the two (2) years preceding graduation.
- For Bachelor of Arts (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.

**School of Engineering**  
**Department of Computer Science**
**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

**Steven Klein, MS**

1999, Southern Illinois University Edwardsville

**John Matta, PhD**

2018, Southern Illinois University Carbondale

**Gary Mayer, PhD**

2009, Arizona State University

**Mark McKenney, PhD**

2008, University of Florida

**Socratis Tornaritis, MS**

1996, Southern Illinois University Edwardsville

**Jerry Weinberg, PhD**

1996, Vanderbilt University

**William White, PhD**

1989, Ohio State University

**Xudong Yu, PhD**

1992, Vanderbilt University

SOUTHERN ILLINOIS UNIVERSITY  
**EDWARDSVILLE**

SCHOOL OF ENGINEERING

## Sample Four-Year Curriculum

	Fall Semester	Spring Semester
Year 1	<b>CS 111</b> Concepts of Computer Science (BICS) 3 <b>CS 140</b> Introduction to Computing I 4 ENG 101 English Composition 3 <b>MATH 150</b> Calculus I (FQR) 5 ACS 103 Interpersonal Communication Skills (EUSC) 3 Total Credits 18	<b>CS 150</b> Introduction to Computing II 3 ENG 102 English Composition II 3 RA 101 Reasoning & Argumentation 3 <b>MATH 152</b> Calculus II (BPS) 5 MATH 224 Discrete Mathematics (BPS) 3 Total Credits 17
Year 2	CS 234 Database and Web System Development 3 CS 240 Introduction to Computing III 3 Laboratory Science Sequence I (BPS, EL) 5 Breadth Fine & Performing Arts (BFPA) 3 Breadth Humanities (BHUM) 3 Total Credits 17	CS 286 Intro to Computer Organization & Architecture 3 MATH Elective 3 Laboratory Science Sequence II (BPS, EL) 5 STAT 380 Statistics for Applications (BICS) 3 Total Credits 14
Year 3	CS 321 Human-Computer Interaction Design 3 CS 340 Algorithms and Data Structures 3 CS 314 Operating Systems 3 Lab Science Elective 5 Total Credits 14	CS 325 Software Engineering 3 CS 360 Ethical and Social Implications of Computing 3 CS 330 Programming Languages 3 Breadth Life Science (BLS) 3 Interdisciplinary Studies 3 Total Credits 15
Year 4	CS 425 Senior Project: Software Design 3 CS 447 Networks and Data Communications 3 CS Elective I 3 CS Elective II 3 Breadth Social Science (BSS)/Experience Global Cultures (EGC) 3 Total Credits 15	CS 499-Senior Project: Software Implementation 3 CS Elective III 3 CS Elective IV 3 Life, Physical or Social Science/Health Experience (EH) 3 Life, Physical or Social Science/Experience United States Culture (EUSC) 3 Total Credits 15

**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. Transfer Credit Equivalency Guides are located at [siue.edu/transfer](http://siue.edu/transfer).

### Contact Information

Department of Computer Science  
 School of Engineering  
 Phone: 618-650-2386  
 Web: [cs.siue.edu](http://cs.siue.edu)