

**COMPUTER SCIENCE  
BACHELOR OF ARTS DEGREE**  
124-127 Semester Hours

<b>FALL</b>		<b>SPRING</b>	
*FST 101 – Succeeding & Engaging at SIUE	1	CS 150 – Introduction to Computing II	3
CS 111 – Concepts of Computer Science (BICS)	3	ENG 102 – English Composition II <sup>3</sup>	3
CS 140 – Introduction to Computing I	4	RA 101 – Reasoning and Argumentation <sup>4</sup>	3
ENG 101 – English Composition I <sup>1</sup>	3	MATH 150 – Calculus I <sup>5</sup> (BPS) (QR)	5
MATH 125 – Pre-calculus with Trig (BPS)	3	Breadth-Social Science (BSS)	3
ACS 103 – Interpersonal Communication Skills <sup>2</sup> (EUSC)	3		
TOTAL	18	TOTAL	17

<b>FALL</b>		<b>SPRING</b>	
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 Comp Organization & Architecture	3
Breadth-Fine & Performing Arts (BFPA)	3	Experiences-Health <sup>6</sup> (EH)	0-3
Breadth-Humanities (BHUM)/United States Cultures (EUSC) <sup>7</sup>	3	STAT 244 – Statistics	3
Foreign Language 101 <sup>a</sup>	4	Foreign Language 102 <sup>a</sup> (EGC)	4
TOTAL	16	TOTAL	13/16

<b>FALL</b>		<b>SPRING</b>	
CS 321 – Human-Computer Interaction Design	3	CS 325 – Software Engineering	3
CS 340 – Algorithms and Data Structures	3	CS 314 – Operating Systems	3
Breadth-Life Science <sup>6</sup> (BLS)/Lab Experience (EL)	3	CS 360 – Ethical and Social Implications of Computing	3
Fine & Performing Arts or Humanities	3	Fine & Performing Arts or Humanities	3
Unrestricted/Minor Elective	3	Fine & Performing Arts or Humanities	3
TOTAL	15	TOTAL	15

<b>FALL</b>		<b>SPRING</b>	
CS 330 – Programming Languages	3	CS 447 – Networks and Data Communications	3
CS 425 – Senior Project Software Design	3	CS 499 – Senior Project Software Implementation	3
Interdisciplinary Studies Course <sup>7</sup> (IS)	3	CS Elective I <sup>b</sup>	3
Fine & Performing Arts or Humanities	3	Unrestricted/Minor Elective <sup>c</sup>	3
Unrestricted/Minor Elective <sup>c</sup>	3	Unrestricted/Minor Elective <sup>c</sup>	3
TOTAL	15	TOTAL	15

**Declaration of Major:** Students interested in any of the majors offered by the School of Engineering should seek advisement from the School of Engineering when they initially enroll in the University and should declare a major as soon as possible. Students admitted to programs offered by the School of Engineering shall have met University admission requirements, successfully completed any required academic development and high school deficiency courses, eligibility to enroll in MATH 125 – Pre-Calculus, and have a cumulative GPA of 2.0 or better in any completed University course work.

**SEE REVERSE SIDE FOR ADDITIONAL INFORMATION.  
FOR MORE INFORMATION CONTACT:  
THE DEPARTMENT OF COMPUTER SCIENCE AT (618) 650-2386**

\*FST 101 – for first time freshmen only. Must be taken in the first semester.

<sup>1</sup>ENG 101 must be successfully completed within the First 30 Hours.

<sup>2</sup>ACS 103 must be successfully completed within the First 30 Hours. ACS 103 can be used as a Foundations course, and will also fulfill the EUSC requirement. If ACS 101 is taken instead of ACS 103, the EUSC requirement will have to be met by another appropriate course.

<sup>3</sup>ENG 102 must be successfully completed within the First 45 Hours.

<sup>4</sup>RA 101 must be successfully completed within the First 45 Hours.

<sup>5</sup>Quantitative Reasoning (QR) 101 must be successfully completed within the First 60 Hours. MATH 150 successfully completed (with a grade of ‘C’ or better) will fulfill this requirement.

<sup>6</sup>Students may be able to complete the Experiences-Health (EH) as an approved project or activity; if so, an additional course is not needed. (See academic advisor for approved project or activity). In addition, \*BIOL 203 or \*BIOL 205 will fulfill a BLS and EH requirement. \*Prerequisite/s required courses.

<sup>7</sup>Interdisciplinary Studies (IS) Courses must be taken at the junior/senior level class standing. This requirement is not waived with completion of transfer associate degree or IAI-GECC. It is recommended that students choose a course to meet this general education requirement and Global Cultures (EGC). Selecting one of the following: IS 324, 326, 336, 340, 352, 353, 363, 375, 377, 400 or 401 will satisfy both the requirement of an IS course and the EXPERIENCES-GLOBAL CULTURES (EGC) requirements. In addition, IS 352 and 375 will fulfill the EGC, EUSC and IS requirements. If the IS course selected does not meet any of the general education requirements mentioned above, concurrently; then a course from the list of EGC courses must also be taken.

**\*One two-semester foreign language sequence (101-102) is required.**

**<sup>b</sup>CS ELECTIVES: (one required)**

CS 382, CS 423, CS 434, CS 438, CS 454, CS 456, CS 482, CS 490 (may count twice), CS 495 (may count twice), ECE 381 ECE 482, and MATH 465.

**<sup>c</sup>One Minor or (Second Major) is required.**

**University Requirements (Non-General Education)**

- Bachelor of Science Degree Requires completion of 8 lecture courses in life (BLS\* or LS\*), physical (BPS\* or PS\*) or social science (BSS\* or SS\*) including 2 with labs (EL\*)
- Minimum of 124 semester hours must be completed.
- Minimum GPA of 2.0 must be achieved.

\*Approved courses are identified in the catalog with this designation. Lists of approved classes may also be obtained at [siue.edu/registrar/genedguides.shtml](http://siue.edu/registrar/genedguides.shtml).