

Bachelor of Science in Computer Science

LIBERAL STUDIES REQUIREMENTS (48-49 credits) See Liberal Studies Guide for Goal and Enrichment choices				
GOAL COURSE REQUIREMENTS Complete Goal requirements as indicated below (39-40 credits)				
✓	Course	Title	Cr	Gr
Basic Requirements - ENGL101&103 required if student entered SRU prior to Fall 2011. ENGL102 required if student entered SRU Fall 2011 forward.				
	ENGL 101 and ENGL 103 or ENGL 102	College Writing I and College Writing II or College Writing	3 3 3	
	COMM 200	Public Speaking ★	3	
	ENGL 210	Interpreting Literature ★	3	
The Arts				
	Goal		3	
Global Community (see Liberal Studies guide for details)				
	Goal – Non-US		3	
	Goal – Non-US		3	
	Goal – US		3	
Human Institutions/Interpersonal Relationships				
	Goal		3	
Science, Technology & Math				
	Goal – Sci		3	
	Goal – Sci		3	
	Lab – Sci		0-1	
	Goal - Math		3	
Challenges of the Modern Age				
	Goal		3	
ENRICHMENT COURSE REQUIREMENTS (9 credits) Choose one course from three of the following Enrichment areas				
The Arts				
Global Community				
Human Institutions/Interpersonal Relationships				
Science, Technology & Math				
			◊	

REQUIRED SCIENCE COURSES (15 credits) ◊ Require a two course sequence in Chemistry, Biology, Physics, or EGEO. (7-8 credits)			
Course	Title	Cr	
CHEM 107	General Chemistry I ★◊	3	
CHEM 108/111	General Chemistry II / Lab ★◊	3 / 1	
or			
PHYS 211	General Physics I ★◊	4	
PHYS 212	General Physics II ★◊	4	
or			
PHYS 201	Elements of Physics I ★◊	4	
PHYS 202	Elements of Physics II ★◊	4	
or			
EGEO 101/111	Physical Geology / Lab ★◊	3 / 1	
EGEO 202/212	Earth History / Lab ★◊	3 / 1	
or			
EGEO 101/111	Physical Geology / Lab ★◊	3 / 1	
EGEO 231	Aerial Photo Interpretation ★◊	3	
or			
EGEO 101/111	Physical Geology / Lab ★◊	3 / 1	
EGEO 241	Geomorphology ★◊	3	
or			
EGEO 121	Meteorology◊	3	
EGEO 221	Weather & Climate Forecast ★◊	4	
or			
BIOL 104	Principles of Biology◊ and	4	
BIOL 201	General Botany ★ ◊ or	4	
BIOL 212	General Zoology ★ ◊ or	4	
BIOL 250	Genetics ★ ◊ or	4	
or			
BIOL 101	General Biology◊ and	3	
BIOL 201	General Botany ★ ◊ or	4	
BIOL 212	General Zoology ★ ◊ or	4	
BIOL 250	Genetics ★ ◊ or	4	
Need 7-8 additional credits in Mathematics or Science to bring total credits of Math and Science to 30			

MAJOR REQUIREMENTS (55 credits plus 12 under advisement to enhance degree)				
✓	Course	Title	Cr	Gr
Required Computer Science Courses (31 credits)				
	CPSC 146	Programming Principles ★	3	
	CPSC 246	Advanced Programming Principles ★	4	
	CPSC 370	Computer Organization★	3	
	CPSC 374	Algorithms and Data Structures★	3	
	CPSC 376	Programming Languages★	3	
	CPSC 378	Theory of Computation★	3	
	CPSC 423	Computer Networks★	3	
	CPSC 464	Concurrent Program & Op Sys★	3	
	CPSC 474	Computer Architecture★	3	
	CPSC 488	Software Engineering★	3	
Required Electives: Select two courses (6 credits)				
	CPSC 217 or CPSC 236	Structured and Dyn Web Prog ★ or Selected Computer Languages ★	3	
	CPSC 317	Scripting Language ★	3	
	CPSC 323	Database Systems★	3	
	CPSC 327	Administration and Security ★	3	
	CPSC 450	Internship ★	3	
Required Electives: Select one course (3 credits)				
	CPSC 358	Simulation ★	3	
	CPSC 456	Computer Graphics★	3	
	CPSC 466	Compiler Design & Implem. ★	3	
	CPSC 476	Artificial Intelligence★	3	
	CPSC 478	Analysis of Algorithms★	3	
	CPSC 498	Topics in Computer Science★	3	
Required Mathematics courses (15 credits)				
	MATH 152 or MGMT/ ECON 219	Elementary Statistics I ★◊ or Business Statistics	3	
	MATH 131 or CPSC311	Discrete Mathematics★ ◊ ◊ or Discrete Computational Structures★	3	
	MATH 225	Calculus I★	4	
	MATH 230	Calculus II★	4	

◊ MATH131 will require an additional Math course to bring this block up to 15 credits. Recommended courses are Math 231, 235 or 240.

COMPUTER COMPETENCY (for students entering Fall 2008 and after) Students must demonstrate "computer competency" by:				
	Passed Exam	Pass Computer Competency Exam at SRU Orientation		
OR	CPSC ____	Complete one of the following courses: CPSC 100, 110, 130 or 210 at SRU or another post-secondary institution	3	

IMPORTANT CURRICULUM GUIDE NOTES

This Curriculum Guide is provided to help SRU students and prospective students better understand their intended major curriculum. Enrolled SRU students should note that the My Rock Audit may place already-earned and/or in progress courses in different, yet valid, curriculum categories. Enrolled SRU students should use the My Rock Audit Report and materials and information provided by their faculty advisors to ensure accurate progress towards degree completion. The information on this guide is current as of the date below. Students are responsible for curriculum requirements at the time of enrollment at the University.

★ Indicates this course may have a prerequisite. Refer to Undergraduate Online Catalog.

◊ If the course is not used in your MAJOR, it can be used towards your Liberal Studies requirements.

QPA REQUIREMENT
2.0 or higher Major QPA
2.0 or higher Overall QPA