COMPUTING, BACHELOR OF SCIENCE (BS) - CONCENTRATION IN INFORMATION TECHNOLOGY

Recommended Four-Year Plan

Course First Year Fall	Title	Hours		
CPSC 130	Introduction to Computing and Programming	3		
ENGL 102	Critical Writing	3		
ESAP 101	FYRST Seminar *	1		
MATH 120 or SCI 101	Intermediate Algebra or Science of Life	3		
SUBJ 139	Foundations of Academic Discovery ¹	3		
	c Inquiry (https://catalog.sru.edu/ c-studies/rock-studies-program/)	3		
Chuina	Hours	16		
Spring CPSC 146	Drogramming Dringinles	2		
Select one of the following	Programming Principles	3-4		
MATH 125	Precalculus	3-4		
MATH 125 MATH 225	Calculus I			
MATH 225 MATH 230	Calculus II			
MATH 230 MATH 231	Calculus III			
STAT 152				
STAT 152 ENGL 104	Elementary Statistics I	2		
	Critical Reading	3		
Select one of the following COMM 200	•	3		
	Civil Discourse: Theory & Practice			
PHIL 110	Ethics and Civil Discourse			
POLS 235	Civil Discourse and Democracy	3		
	Social Science Inquiry (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)			
	Hours	15-16		
Second Year				
Fall				
CPSC 207	Shell Commands and Scripting	3		
CPSC 217	Advanced Web Programming	3		
STAT 152	Elementary Statistics I	3		
SCI 101	Science of Life (or IT Elective)	3		
IT Elective or Free E	lective (p. 1)	3		
Declare a Thematic	Thread ²			
	Hours	15		
Spring				
CPSC 323	Fundamentals of Database Systems	3		
IT Elective or Free E	lective (p. 1)	3		
CPSC 300	Challenges of Computer Technology	3		
SCI 102	Understanding the Physical World	3		

Humanities Inquiry studies/rock-studie	(https://catalog.sru.edu/undergraduate/rock-s-program/)	3	
	Hours	15	
Third Year			
Fall			
CPSC 237	Mobile App Development for Smart Devices	3	
CPSC 311	Discrete Computational Structures	3	
CPSC 317	Server-Side Scripting	3	
Select one of the fo	llowing:	3	
CYBR 101	Cybersecurity in the Era of Evolving Technology		
MGMT3xx/4xx	Management Elective		
	equirement (https://catalog.sru.edu/ <-studies/rock-studies-program/)	3	
	Hours	15	
Spring			
CPSC 315	Internet of Things (IoT)	3	
CPSC 327	Administration and Security	3	
Select one of the fo	llowing:	3	
CPSC 301	Practical Computer Security		
MGMT 351	Organizational Behavior		
	equirement (https://catalog.sru.edu/	3	
-	c-studies/rock-studies-program/)		
IT Elective or Free E		3	
	Hours	15	
Fourth Year			
Fall			
CPSC 423	Computer Networks	3	
IT Elective or Free Elective (p. 1)			
IT Elective or Free Elective (p. 1)			
IT Elective or Free E	" /	3	
	equirement (https://catalog.sru.edu/ c-studies/rock-studies-program/)	3	
	Hours	15	
Spring			
CPSC 427	IT Capstone Project	3	
Thematic Thread Requirement (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)			
IT Elective or Free E	Elective (p. 1)	3	
IT Elective or Free E	IT Elective or Free Elective (p. 1)		
	Hours	13	
	Total Hours**	119-120	
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¹ Course offered in multiple subjects; cannot take course in first major

IT Elective Courses

Code	Title	Hours
CPSC 125	3D Modeling for Computing	3
CPSC 236	Selected Computer Languages	3

² Work with your Academic Adviser to declare a Thematic Thread by the end of your fall semester in your second year.

^{*} Students are encouraged to take ESAP 101 as a Free Elective.

^{**} Jr. or Sr. Computing major with 3.0 GPA. Application required

CPSC 246	Advanced Programming Principles	3
CPSC 301	Practical Computer Security	3
CPSC 333	Introduction to Computer Forensics	3
CPSC 405	Data Mining and Data Analysis	3
CPSC 406	Data Visualization	3
CPSC 417	Advanced Web Technologies	3
CPSC 450	Internship	3
CSS 354	Risk Assessment and Fraud Prevention	3

^{**} This document is meant to serve as a guide. Some planners may show more than 120 credits because faculty have created flexibility in choosing courses. However, only 120 credits are required to obtain a degree. Please consult with your academic adviser and refer to your curriculum guide prior to registering for courses. This plan should be reviewed, and verified, by you and your academic adviser at least once each academic year.

Major Code: 6420

Concentration Code: 643C Revised Date: 04.29.2022