

Slippery Rock University of Pennsylvania – Curriculum Guide

**Bachelor of Science in Computing
Concentration in Information Technology**

FRESHMAN ENTERING ON OR AFTER FALL 2019

ROCK STUDIES REQUIREMENTS (43 Credits)		
Course	Title	Cr
THE ROCK (16 credits)		
[DEPT] 139	University Seminar	3
ENGL 102	Critical Writing	3
ENGL 104	Critical Reading	3
COMM 200 or PHIL 110 or POLS 235	Civil Discourse Ethics and Civil Discourse Civil Discourse and Democracy	3
MATH 125	Pre-Calculus	4
INTEGRATED INQUIRY (15 credits)		
Creative and Aesthetic Inquiry (3 credits)		
Humanities Inquiry (3 credits)		
Social Science Inquiry (3 credits)		
Natural Science Inquiry (3)		
SCI 101	Science of Life	3
Physical Science Inquiry (3 credits)		
SCI 102	Understanding the Physical World	3
THEMATIC THREAD (12 credits)		
Choose 12 credits (from at least 3 Categories; no more than 6 credits from one department; 6 credits must be 300-level or above)		

COMPUTER COMPETENCY		
Students must demonstrate "computer competency" by:		
Passed Exam	Pass Computer Competency Exam at SRU	3
OR		
CPSC ____	Complete one of the following courses: CPSC 100, 110, 130, or PE202 at SRU or another post-secondary institution	1-3

OTHER BASIC REQUIREMENTS		
(Check with your advisor or a current degree audit report to see if you have been exempted from this course.) The credit earned in this course will not be counted toward the 120 credit hour minimum needed to earn a degree.		
ACSD 110	Beginning Algebra	3

★	Course may have a prerequisite. See Undergraduate Online Catalog.
^	Course counts for 50% of Major requirements and Major GPA
PASSHE = Pennsylvania State System of Higher Education Institution	

Co-curricular and Experiential Learning	
Students are encouraged to explore additional curricular and co-curricular opportunities. There is a strong correlation between long-term student success and participation in the following types of programs and activities:	
1.	High-Impact Practice (HIP) designated classes, (Learning Community, Cap-Stone Course, Semester Projects)
2.	Student-faculty research
3.	Service Learning Courses
4.	Internships
5.	Volunteering (Summer Day Camps, Semester Workshops for K-12 students, Robot demos for visitors/local school districts)
6.	Industry Awareness Night

MAJOR/CONCENTRATION REQUIREMENTS (54 credits)		
<ul style="list-style-type: none"> • 27 major credits must be taken at SRU or PASSHE • 27 major credits must be taken at the 300 level or above 		
Course	Title	Cr
Required Core Courses (27 credits)		
CPSC 130^	Intro to Computing and Programming★	3
CPSC 146^	Programming Principles ★	3
CPSC 207^	Shell Commands and Scripting	3
CPSC/MIS 300^	Challenges of Computer Tech★	3
CPSC 311^	Discrete Computational Structures★	3
CPSC/MIS 323^	Database Systems★	3
CPSC 327^	Administration and Security★	3
CPSC 423^	Computer Networks★	3
STAT 152^	Elementary Statistics I ★	3
Information Technology Core Courses (15 credits)		
CPSC 217^	Structured and Dynamic Web Programming ★	3
CPSC 317^	Scripting Language ★	3
CPSC 337^	Intro to Web Graphics ★	3
CPSC 427^	Interface Design ★	3
ART 114^	Basic Studio Digital Media	3
Information Technology Electives (6 credits)		
Choose two courses in sequence from one of the following areas:		
Art		
ART 214^	Art Synthesis Digital Media ★	3
ART 314^	Advanced Studio Digital Media★	3
Management		
MGMT 351^	Organizational Behavior	3
MGMT ____ ^	Any MGMT course 300 level or above★	3
Marketing		
MRKT 330^	Principles of Marketing	3
MRKT ____ ^	Any MRKT course 300 level or above★	3
Information Technology Electives (6 credits)		
Choose two additional courses, one of which must be at the 300 level or above.		
CPSC 125	3D Modeling for Computing★	3
CPSC 215^	Cross Platform Mobile App Dev★	3
CPSC 236^	Selected Computer Languages★	3
CPSC 246^	Advanced Programming Principles★	3
CPSC/MIS 301^	Practical Computer Security ★	3
CPSC 315^	Computer Gadget Project ★	3
CPSC/MIS 333^	Intro 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
MIS 443^	Project Management	3

GPA REQUIREMENT
2.0 or higher Major GPA
2.0 or higher Overall GPA