

CYBERSECURITY, BACHELOR OF SCIENCE (BS) - CONCENTRATION IN SECURE SOFTWARE DEVELOPMENT/ADVANCED PILOTING (CCBC)

Course	Title	Hours
First Year		
Fall		
AVIP 180	Instrument Flight Theory (taken at CCBC)	7
AVIP 190	Instrument Flight Rating (taken at CCBC)	2
WRIT 101	English Composition (taken at CCBC)	3
CPSC 130	Introduction to Computing and Programming	3
ESAP 101	FIRST Seminar	0-1
Hours		15-16
Spring		
AVIP 120	Foundations and Development of Aviation (taken at CCBC)	3
CIST 100	Introduction to Information Technology (taken at CCBC)	3
Select 1 of the following:		4
MATH 102	Precalculus (taken at CCBC)	
MATH 125	Calculus I (taken at CCBC)	
CPSC 146	Programming Principles	3
SUBJ 139	Foundation of Academic Discovery	3
Hours		16
Second Year		
Fall		
AVIP 215	Commercial Flight Theory (taken at CCBC)	5
AVIP 220	Commercial Flight Certification I (taken at CCBC)	3
LITR 210	Concepts of Literature (taken at CCBC)	3
CPSC 246	Object-Oriented Programming	3
CYBR 101	Cybersecurity in the Era of Evolving Technology	3
Hours		17
Spring		
AVIP 202	Aircraft Engines Theory (taken at CCBC)	3
AVIP 204	Aircraft Systems Theory (taken at CCBC)	3
AVIP 225	Commercial Flight Certification II (taken at CCBC)	3
CPSC 311	Discrete Computational Structures	3
SCI 101	Science of Life	3
Hours		15
Third Year		
Fall		
AVIP 250	Multi-Engine Rating (taken at CCBC)	1
AVIP 260	Human Factors Theory (taken at CCBC)	3

AVIP 270	Aerodynamics of Flight (taken at CCBC)	3
CPSC 207	Shell Commands and Scripting	3
CPSC 301	Practical Computer Security	3
Creative & Aesthetic Inquiry (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)		3
Hours		16
Spring		
AVIP 275	Certified Flight Instructor Theory (taken at CCBC)	2
Select 2 of the following:		4
AVIP 280	Multi-Engine Rating (taken at CCBC)	
AVIP 285	Certified Flight Instructor (taken at CCBC)	
AVIP 288	Certified Flight Instructor - Multi-Engine (taken at CCBC)	
CPSC 323	Fundamentals of Database Systems	3
CYBR 301	Secure Programming	3
CPSC Elective		3
Hours		15
Fourth Year		
Fall		
METR 140	Foundations in Meteorology (taken at CCBC)	4
COMM 201	Public Speaking (taken at CCBC)	3
CPSC 374	Algorithms and Data Structures	3
CPSC 376	Programming Language and Theory	3
CYBR 353	Software Assurance	3
Hours		16
Spring		
CPSC 300	Challenges of Computer Technology	3
CPSC 327	Administration and Security	3
CYBR 471	Malware Analysis	3
Humanities Inquiry (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/)		3
Hours		12
Fifth Year		
Fall		
CPSC 423	Computer Networks	3
CPSC 488	Software Engineering	3
CYBR 401	Software Security Analysis	3
CPSC Elective		3
Hours		12
Total Hours**		134-135