Bachelor of Science in Computer Science and Information Systems

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Program Overview

Upon successful completion of the BSCO program students will:

- be able to evaluate, synthesize, and utilize information from a number of disciplines;
- effectively and professionally communicate technical information, in both oral and written forms, to both specialist and non-specialist audiences;
- apply the underlying knowledge and skills of the computer sciences to real-world challenges and situations;
- work effectively work both as individuals and as members and leaders of multi-disciplinary teams;
- analyze complex problems and use computer science tools and techniques to develop a hypothesis and created a potential solution;
- carry out ethical decision making within the field of computer science.

Requirements

Mathematics

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MA 107	Precalculus Mathematics	4	
MA 121	Calculus I	4	
MA 122	Calculus II	4	
MA 380	Theory of Computation	3	
MA 306	Discrete Mathematics	3 3	
MATH 232	Elementary Statistics	3	
Electrical/Computer Engineering			
EE 215	Fundamentals of Digital Design	4	
EE 321	Embedded Systems	4	
Computer Science			
CYBR 110	Introduction to Computer Programming	3	
CS 228	Introduction to Data Structures	3	
CS 301	Software Engineering	3	
CS 270	Operating Systems & Parallelism	3	
CSIS 370	Computer Architecture and Reverse Engineering	4	
*CSXXX	(Capstone)	6	
CYBR 201	Fundamentals of Computer Networking	3	
CYBR 210	Computer Programming with a High Level Language	3	
CYBR 215	Computer Programming with a Low Level Language	3	
CYBR 230	Relational Databases with SQL	3	
* courses in development but not yet approved by the University			
Curriculum Committee			

Total Cr.

Faculty

Faculty Member	Institution at which highest degree was earned
Henry Collier (Program Manager)	Champlain College