



BACHELOR OF SCIENCE

Computer Science



SCHOOL OF
ARTS AND SCIENCES

PROGRAM DESCRIPTION

The focus of the Computer Science program is not only to teach students techniques and tools required in the industry, but also how to think logically and to be able to analyze and solve complicated problems. Students are taught the core principles of computer science, software systems, analytical problem-solving, leadership, and ethical decision-making.



Computing
Accreditation
Commission

The BS in Computer Science Program at FMU is accredited by the Computing Accreditation Commission of ABET.

CAREER OPPORTUNITIES

Once this foundation is instilled and skills are perfected, the career choices in the field are virtually endless: Software Developers, Architects and Engineers, Web and System Developers, Programmers and Business Analysts, System Administrators, Application Support and Computer Systems Analysts, Information Technology Specialists, and many more. Upon graduation, our students are prepared for the competitive workforce.

DEGREE CHECKLIST

FRESHMAN			
Prefix	Course No.	Course	Credits
CSC	101	Intro To Computers	3
		African Diaspora And The World	3
		Society And Global Inquiry (HUM/VPA)	3
FMU	101	University 101	2
		Religion And Philosophical Inquiry	3
		Electives	3
TOTAL - 1st SEMESTER			17
CSC	230	Computer Programming I	3
CMT	102	Critical Thinking Info Age	2
ENG	102	College Writing II	3
		Society And Global Inquiry (SSC)	3
		Electives	3
TOTAL - 2nd SEMESTER			14

JUNIOR			
Prefix	Course No.	Course	Credits
CSC	341	Computer Organization	3
CSC	360	Operating Systems	3
CSC	385	Artificial Intelligence	3
		Physics w/Cal I or Chemistry I	4
		Physics w/Cal I Lab or Chemistry I Lab	1
CSC	375	Network & Data Communication	3
TOTAL - 5th SEMESTER			17
		Database Concepts & Design	3
CSC	493	Computer Security	3
MAT		Advanced Mathematics	3
		Physics w/Cal II or Chemistry II	4
		Physics w/Cal II Lab or Chemistry II Lab	1
		Advanced Computer Elective	3
TOTAL - 6th SEMESTER			17

SOPHOMORE			
Prefix	Course No.	Course	Credits
CSC	330	Computer Programming II	3
MAT	205	Probability & Statistics	3
	202	World Languages	3
MAT	201	Calculus I	3
COM	103	Intro to Public Speaking	3
TOTAL - 3rd SEMESTER			15
CSC	335	Data Structures	3
MAT	210	Discrete Mathematics	3
MAT	202	Calculus II	3
		Electives	3
TOTAL - 4th SEMESTER			12

SENIOR			
Prefix	Course No.	Course	Credits
CSC	395	Software Engineering Principles	3
CSC	405	Programming Languages	3
CSC	430	Computer Programming III	3
CSC		Advanced Computer Elective	3
CSC		Advanced Computer Elective	3
TOTAL - 7th SEMESTER			15
CSC	460	Senior Project	3
CSC	475	Complexity & Analysis of Algorithms	3
CSC	494	Software Project Development	3
CSC	490	Computer Ethics	3
CSC		Advanced Computer Elective	3
TOTAL - 8th SEMESTER			15