MINOR IN COMPUTER SCIENCE

Overview

The minor in Computer Science requires 8 credits of core Computer Science courses, one 3 credit Computer Science elective at the 300 level, and 6 credits of elective Computer Science course at the 200 level or above or approved courses from other departments.

Curriculum Requirements

Code	Title	Credit Hours
Core Courses		
CSC 120	Computer Programming I	4
CSC 220	Computer Programming II	4
Electives		
CSC 3XX - Any 300-level Computer Science course		3
Select 6 approved credit hours of the following:		6
Any CSC 2XX, CSC 3XX, CSC 4XX, CSC 5XX [1, 2]		
CSC 115	Python Programming for Everyone [3]	
At most one of the following may be used as an elective towards the minor from the list below separated by "or" (this constraint holds, whether choosing a course to serve as an approved substitute for CSC115 or choosing another elective from the list) [4]		
CSC 116	Cybersecurity: An Introduction to Security in Cyberspace	
or CSC 119	Computers and Society	
or BTE 120	Introduction to Business Technology and Programming	
or BTE 320	Python Programming: Fundamentals and Algorithms	
or ECE 118	Introduction to Programming	
or GEG 310	Geographic Information Systems I	
or JMM 341	Web Design	
or MSC 203	Foundations of Computational Marine Science	
BIL 552	Bioinformatics Tools	
BTE 360	Systems Analysis and Design	
BTE 465	Web Application Development	
BTE 524	Mobile Apps Development	
BTE 535	Cybersecurity	
BTE 565	Mobile to Cloud: Developing Distributed Applications	
CIM 423	Building Virtual Worlds	
CIM 433	Augmented Reality	
CIM 453	Dynamic Data	
ECE 368	Internet Computing I	
ECE 414	Computer Organization and Design	
ECE 481	Senior Project I	
ECE 482	Senior Project II	
ECE 514	Computer Architecture	
ECE 548	Machine Learning	
ECE 553	Neural Networks	
ECE 570	Network Client-Server Programming	
ECE 572	Object-Oriented and Distributed Database Management Systems	
ECE 574	Agent Technology	
ECE 576	Internet and Intranet Security	
ECE 577	Data Mining	
ECE 579	Mobile Computing	
ECE 596	Special Topics in Computer Engineering	
GEG 410	Geographic Information Systems II	
MMI 504	Audio Signal Processing III	

MMI 505	Current Trends in Music Engineering I	
MSC 321	Scientific Computing in Marine and Atmospheric Sciences	
MTH 320	Introduction to Numerical Analysis	
MTH 505	Theory of Numbers	
MTH 520	Numerical Linear Algebra	
MTH 521	Numerical Methods in Differential Equations	
MTH 524	Introduction to Probability	
MTH 525	Introduction to Mathematical Statistics	
MTH 542	Statistical Analysis	
Total Credit Hours		**17**

1 CSC 40X - Computer Science Practicum courses must be taken at the same time as the host course.

2 Maximum of 6 credits of CSC 481 - Computer Science Teaching Assistant.

3 CSC115 can be used as an elective towards the minor only if taken before CSC120.

4 BTE 120, BTE 320, ECE 118, or MSC203 may be taken from this list as an elective towards the minor only as an approved substitute for CSC115 before CSC120.