UMBC UGC Program Changes & Other Request: Computer Science Major

Date Submitted: 11/1/2020   Proposed Effective Date: 1/1/2020

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Specifics (see instructions):

Computer science majors have the option of completing one of four tracks which focus four of their five elective courses. It is possible for students to complete two tracks by completing the same four courses. Going forward, students can complete more than one track with the caveat that two courses in each track cannot be used towards any other tracks.

Therefore, one track requires 4 courses. Two tracks require a minimum of 6 courses. Three tracks require a minimum of 9 courses.

Rationale (see instructions):
It would be possible for students to complete both the data science track and the newly proposed AI/ML track by completing just four courses. This policy is designed to help maintain the integrity of the tracks by requiring that students to complete unique track-specific coursework.

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Dear UGC,

Below is a summary of the 7 changes that the Department of Computer Science and Electrical Engineering (CSEE) is proposing regarding the Computer Science program (CMSC).

Our goal is to have all of these go into effect in January 2020.

Thank you,

Jeremy Dixon
Undergraduate Program Director – Computer Science
CSEE
UMBC

Num	Name of Change	Change Type	Course Number	Description of Change	Related Files
1	New Study Track - AI/ML	Program Change	XXX	New Study Track	Program_Change_AI-ML.docx Program_Change_CMSC AI Track Details.docx
2	Change to CMSC Tracks	Program Change	XXX	Change requirements for CMSC students who complete multiple tracks.	Program_Change_CMSC_Tracks.docx
3	Change to CMSC Natural Science Requirement	Program Change	XXX	Change natural science requirements for CMSC majors. Going from 12 credits (sequence of BIO1/BIO2 or CHEM1/CHEM2 or PHYS1/PHYS2 + 4 additional credits) to 10-12 credits (sequence of BIO1/BIO2 or CHEM1/CHEM2 or PHYS1/PHYS2 + one lab science to include SCI100 or CHEM102L or PHYS122L or GES286) Additionally, students who transfer from a school with a lab science will have met this lab requirement.	Program_Change_CMSC_Natural_Science_Change.docx
4	Malware Analysis	New Course	CMSC 491 to CMSC 449	New Course - converting CMSC 491 to CMSC 449	NewCourse_CMSC449_-_Malware_Analysis.docx NewCourse_CMSC449_-_Malware_Analysis_Syllabus.pdf
5	Introduction to Data Science	New Course	CMSC 491 to CMSC 462	New Course - converting CMSC 491 to CMSC 462	NewCourse_CMSC462_-_Intro_to_Data_Science.doc NewCourse_CMSC462_-_Intro_to_Data_Science_Syllabus.doc
6	Undergraduate Teaching Assistantship	New Course	CMSC 496	New Course	NewCourse_CMSC396_-_Undergraduate_Teaching_Assistantship.docx NewCourse_CMSC396_-_Undergraduate_Teaching_Assistantship_Syllabus.docx
7	Design and Analysis of Algorithms	Course Change	CMSC 441	Modify prerequisites and at least one of the following: (STAT 355, CMPE 320, or STAT 451) all with a grade of C or better.	Course_Change_CMSC441_Prerequisites.docx