

UMBC UGC Change in Existing Course: enter current course number & title

Date Submitted:

Proposed Effective Date:

	name	email	phone	dept
Dept Chair	Charles Nicholas	nicholas@cs.umbc.edu	x52594	CSEE
Contact	Penny Rheingans	rheingan@cs.umbc.edu	x53554	CSEE

COURSE INFORMATION:

change		current	proposed
<input type="checkbox"/>	Course Number(s)	CMSC 435	
<input type="checkbox"/>	Formal Title	Computer Graphics	
<input type="checkbox"/>	Transcript Title (≤24c)		
<input type="checkbox"/>	Recommended Course Preparation		
<input checked="" type="checkbox"/>	Prerequisite	CMSC 341 and MATH 221	CMSC 313, CMSC 341, and MATH 221
<input type="checkbox"/>	Credits		
<input type="checkbox"/>	Repeatable?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/>	Max. Total Credits		
<input type="checkbox"/>	If yes, how many total credits?		
<input type="checkbox"/>	Grading Method(s)	<input type="checkbox"/> Reg (A-F) <input type="checkbox"/> Audit <input type="checkbox"/> Pass-Fail	<input type="checkbox"/> Reg (A-F) <input type="checkbox"/> Audit <input type="checkbox"/> Pass-Fail

CURRENT CATALOG DESCRIPTION:

An introduction to the fundamentals of interactive computer graphics. Topics include graphics hardware, line drawing, area filling, clipping, two-dimensional and three-dimensional geometrical transforms, three-dimensional perspective viewing, hidden surface removal, illumination, color and shading models.

PROPOSED CATALOG DESCRIPTION: no changes change in description

RATIONALE FOR CHANGE:

CMSC 435 requires students to write complex programs in the C or C++ programming language. In the past, we have taught the C language in CMSC 201, which is in the prerequisite chain for CMSC 435 (CMSC 201 is required for CMSC 202, which is required for CMSC 341). We have recently redesigned CMSC 201 to teach Python instead, and added system-level C programming as a topic to CMSC 313. (The corresponding course description for CMSC 313 was recently approved by the Undergraduate Council.) With this change, students will be unprepared for CMSC 435 without having first completed CMSC 313, so we wish to add this prerequisite to the CMSC 435 requirements.