

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 | Dennis Frey | frey@cs.umbc.edu | x53540 | CSEE |

COURSE INFORMATION:

| change | | current | proposed |
|-------------------------------------|---------------------------------|--|--|
| <input type="checkbox"/> | Course Number(s) | CMSC 202 | |
| <input type="checkbox"/> | Formal Title | Computer Science II for Majors | |
| <input type="checkbox"/> | Transcript Title (≤24c) | | |
| <input type="checkbox"/> | Recommended Course Preparation | | |
| <input checked="" type="checkbox"/> | Prerequisite | CMSC 201 | CMSC 201 and MATH 150 |
| <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:

This course continues the student's development of programming and problem-solving skills by providing an introduction to object-oriented design and programming (OOP). The primary focus is on OOP principles and techniques, including encapsulation, composition, inheritance, and polymorphism. Other OOP topics such as exception handling, containers, and generic programming are also covered. This is the second course for students interested in pursuing further study in computer science.

PROPOSED CATALOG DESCRIPTION: no changes change in description

RATIONALE FOR CHANGE:

CMSC 201, which is a prerequisite for CMSC 202, has MATH 150 (precalculus) as a prerequisite. Therefore, students who take CMSC 201 at UMBC have already completed MATH 150 (and usually MATH 151 as well). However, we have seen an increasing number of transfer students who transfer credit for CMSC 201 from an institution that does not require the equivalent of MATH 150 as a prerequisite. These students come to UMBC and register for CMSC 202, sometimes with a MATH 150 or even a MATH 106 placement. Since CMSC 202 assumes a certain level of mathematical and analytical sophistication, these students are often unprepared for the rigor of the class. We wish to add MATH 150 as an explicit prerequisite to avoid these placement problems.