

## UMBC UGC Change in Existing Course: BIOL 303: Cell Biology

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Proposed Effective Date: Summer 2018

	Name	Email	Phone	Dept
Dept Chair or UPD	Philip Farabaugh	<a href="mailto:farabaug@umbc.edu">farabaug@umbc.edu</a>	53018	BIOL
Other Contact	David Eisenmann	<a href="mailto:eisenman@umbc.edu">eisenman@umbc.edu</a>	52256	BIOL
Other	Nichole Zang Do	<a href="mailto:Zang.do@umbc.edu">Zang.do@umbc.edu</a>	58071	BIOL

**COURSE INFORMATION:** (please provide all information in the “current” column, and only the information changing in the “proposed” column)

change		current	proposed
<input type="checkbox"/>	Course Number(s)	BIOL 303	
<input type="checkbox"/>	Formal Title	Cell Biology	
<input type="checkbox"/>	Transcript Title (≤30c)	Cell Biology	
<input type="checkbox"/>	Recommended Course Preparation		
<input checked="" type="checkbox"/>	Prerequisite <b>NOTE:</b> Unless otherwise indicated, a prerequisite is assumed to be passed with a “D” or better.	You must complete BIOL302 & CHEM102 &(MATH150 or151 or 155)or have equivalent AP credit, or have Math test placement into MATH 151. All prerequisites must be completed with a "C" or better	You must have completed [BIOL 141 or BIOL 141H], and BIOL 142, and BIOL 302, and CHEM 102. You must have completed either [MATH 150 or MATH 151 or MATH 155 or have equivalent AP credit or have Math placement into MATH 151]. All prerequisites must be completed with a grade of “C” or better.
<input type="checkbox"/>	Credits	4.00	
<input type="checkbox"/>	Repeatable?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/>	Max. Total Credits	4.00	<b>Max. Total Credits:</b> This should be equal to the number of credits for courses that cannot be repeated for credit. For courses that may be repeated for credit, enter the maximum total number of credits a student can receive from this course. E.g., enter 6 credits for a 3 credit course that may be taken a second time for credit, but not for a third time. Please note that this does NOT refer to how many times a class may be retaken for a higher grade.
<input type="checkbox"/>	Grading Method(s)	<input checked="" type="checkbox"/> Reg (A-F) <input checked="" 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:

A modern treatment of cell structure and function, with emphasis on the molecular architecture, biochemistry and regulatory mechanisms common to all cells. Topics include membrane structure, function and transport; molecular mechanisms of energy metabolism and its associated organelles; the structural and molecular basis for the expression of genetic information; the organelles involved in the regulation of cell shape and motility; and selected cell functions, growth, reproduction and their control. This course is designed for students interested in the biological sciences, biochemistry and the allied health professions.

**PROPOSED CATALOG DESCRIPTION** (no longer than 75 words): leave blank if no changes are being proposed to the catalog description. NOTE: information about prerequisites should NOT appear in the catalog description.)

### RATIONALE FOR CHANGE:

The BIOL core courses are in the series BIOL 141 → BIOL 142 → BIOL 302 →BIOL 303 and BIOL 300L. BIOL 141/142 is a two-semester Introductory Biology sequence. BIOL 302 is a Genetics course, BIOL 303 is a Cell Biology course, and both build on information from BIOL 141/142.

The prerequisite for BIOL 302 is BIOL 141 and BIOL 142. Previously we had the prerequisite for BIOL 303 set as only BIOL 302. However, recently we have been finding transfer students transferring in from community colleges with the equivalent of a BIOL 302 course, but without having passed two semesters of Introductory Biology. Under the current prerequisites, these students can enter BIOL 303, a course for which they are not adequately prepared, and these students often perform poorly in BIOL 303. To more accurately reflect the material we expect students to have mastered before registering for BIOL 303, we wish to change the prerequisites to explicitly require passing BIOL 141 and BIOL 142 (as well as BIOL 302).