

UMBC UGC Change in Existing Course: BIOL 468 – Ecology of Rivers and Streams

Date Submitted: September 2015

Proposed Effective Date: Spring 2016

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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 468	
<input type="checkbox"/>	Formal Title	Ecology of Rivers and Streams	
<input type="checkbox"/>	Transcript Title (≤30c)	Ecology of Rivers and Streams	
<input checked="" type="checkbox"/>	Recommended Course Preparation	You must have completed BIOL 142 or CHEM 102 and junior standing	
<input checked="" type="checkbox"/>	Prerequisite NOTE: Unless otherwise indicated, a prerequisite is assumed to be passed with a “D” or better.		You must have completed BIOL 142, BIOL 302, BIOL 303 and CHEM 102 with a grade of “C” or better and junior standing
<input type="checkbox"/>	Credits	4.00	
<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	4.00	Max. Total Credits: 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 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 provides an understanding of the structure and functions of lotic ecosystems and how these systems operate in terms of energetics, interactions among component species, and the physical and chemical properties of undisturbed and disturbed watersheds. Special attention will be given to the relationships between biodiversity, species substitutability and ecosystem processing as they relate to the conservation and protection of rivers, streams and non-tidal wetlands. Recommended Preparation: You must have completed [BIOL 142](#) or [CHEM 102](#) with a C or better.

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.)

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RATIONALE FOR CHANGE:

“The BIOL core courses are in a sequence BIOL 141-> BIOL 142 -> BIOL 302 -> BIOL 303, with BIOL 303 serving as a capstone course for the Biology core. The curriculum was designed such that only after completing this course and

showing mastery of the core course content, would students move on in the major and take 400 level courses. However, we have a number of 400 level courses offered that do not explicitly require the content of BIOL 303 for student success in the course and therefore do not currently have it listed as an academic prerequisite. Some students have been taking these courses before completing BIOL 303 and the core, and some of these students have gone on to fail BIOL 303 two times, showing that they do not have mastery of the material and perhaps should be in another major. We would like to make BIOL 303 a prerequisite for all of our 400 level courses, regardless of content, to make this maneuver impossible. We prefer students to show they should be in the major before taking these upper level courses.”