UMBC UGC Change in Existing Course: BIOL 457: Physiology of Marine and Estuarine Animals

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	Name	Email	Phone	Dept
Dept Chair or UPD	Philip Farabaugh	farabaug@umbc.edu	5-3018	BIOL
Other Contact	David Eisenmann	eisenman@umbc.edu	5-2256	BIOL

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

change		current	proposed
	Course Number(s)	BIOL 454	
	Formal Title	Physiology of Marine and Estuarine Animals	
	Transcript Title (≤30c)	Phys:Marine/Est Animals	
\boxtimes	Recommended Course Preparation	BIOL 305 or BIOL 307, with a grade of C or better	
	Prerequisite NOTE: Unless otherwise indicated, a prerequisite is assumed to be passed with a "D" or better.		You must have completed BIOL 302, BIOL 303, [BIOL 305 or BIOL 307] with a grade of "C" or better
	Credits	4	
	Repeatable?	⊠ Yes □ No	☐ Yes ☐ No
	Max. Total Credits	4	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.
	Grading Method(s)	⊠ Reg (A-F) □ Audit □ Pass-Fail	Reg (A-F) Audit Pass-Fail

CURRENT CATALOG DESCRIPTION:

A study of the physiological specializations demanded by marine/estuarine environments, including physiological mechanisms for coping with stresses imposed by extremes of temperature, salinity, aerial exposure and low oxygen concentrations; sensory physiology, including visual, chemical and mechanical modalities; exogenous and endogenous rhythms related to tidal or diel cycles; and bioluminescence. The course includes one or more trips to field laboratories.

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 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."