UMBC UGC Change in Existing Course: BIOL 454: Vision Science

Date Submitted: May 27, 2015 Proposed Effective Date: Fall 2015

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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
	Course Number(s)	BIOL 454	
	Formal Title	Vision Science	
	Transcript Title (≤30c)	Vision Science	
	Recommended Course Preparation	BIOL 451	
х□	Prerequisite NOTE: Unless otherwise indicated, a prerequisite is assumed to be passed with a "D" or better.	BIOL 305 with a grade of C or better	BIOL 305 or BIOL 307 with a grade of C or better
	Credits	4	
	Repeatable?	X□ 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)	X Reg (A-F) ☐ Audit ☐ Pass-Fail	☐ Reg (A-F) ☐ Audit ☐ Pass-Fail

CURRENT CATALOG DESCRIPTION:

BIOL 454 - Vision Science

(4.00)

This course will focus in depth on visual systems of animals and humans. Coverage will span the range of modern research from the biochemistry and physiology of the photoreceptors to the ecology, evolution and functional optimization of visual systems. Topics include visual pigments, biochemical basis of phototransduction, visual processing and organization of visual centers of the brain, eyes, optical arrays, visual evolution and ecology.

Course ID: 52551

Consent: No Special Consent Required

Components: Lecture
Attributes: Writing Intensive

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:

BIOL 307 is a new course, entitled "Human Physiology", which is similar to BIOL 305 "Comparative Animal Physiology" and therefore appropriate as an alternate prerequisite.