UMBC UGC Change in Existing Course: BIOL 443 – Advanced Topics in Developmental Biology

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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 442	
☐	Formal Title	Advanced Topics in Developmental Biology	
☐	Transcript Title (≤30c)	Advanced Topics in Dev. Biol.	
☒	Recommended Course Preparation	You must have completed BIOL 442 with a grade of "C" or better	
☒	Prerequisite	2q	You must have completed BIOL 302, BIOL 303 and BIOL 442 with a grade of "C" or better
☐	Credits	4.00	
☒	Repeatable?	☒ Yes ☐ No	☒ Yes ☐ No
☒	Max. Total Credits	4.00	8.00 **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.
☐	Grading Method(s)	☒ Reg (A-F) ☐ Audit ☐ Pass-Fail	☐ Reg (A-F) ☐ Audit ☐ Pass-Fail

CURRENT CATALOG DESCRIPTION:

Designed to emphasize cellular, molecular and biochemical aspects of basic developmental questions, this course introduces the student to modern approaches to determination, differentiation and morpho-genesis. Experimental design and analysis of data are emphasized. Possible topics include molecular and cellular aspects of gametogenesis, fertilization, embryogenesis and continuous development in the adult; mechanisms of intra- and intercellular communication; and pattern formation and positional information. Developmental model systems using unicellular organisms are considered. This course is repeatable for credit.

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.) Designed to emphasize cellular, molecular and biochemical aspects of basic developmental questions, this course introduces the student to modern approaches to determination, differentiation and morpho-genesis. Experimental design and analysis of data are emphasized. Possible topics include molecular and cellular aspects of gametogenesis, fertilization, embryogenesis and continuous development in the adult; mechanisms of intra- and intercellular communication; and pattern formation and positional information. Developmental model systems using unicellular organisms are considered. The course may be taken twice (for a maximum of 8 credits) if different topics are covered.

RATIONALE FOR CHANGE: