

Minnesota State University Moorhead

BIOL 613: Evolutionary Developmental Biology

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Evolutionary Developmental Biology is the study of the mechanisms of development in a variety of biological systems with an emphasis on how biochemical processes and genetic instructions have been conserved throughout evolution across the history of animal and plant development.

B. COURSE EFFECTIVE DATES: 02/02/2019 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Students will acquire knowledge of the developmental evolutionary biology presented in this course. Students will demonstrate their mastery of this knowledge through weekly quizzes. Emphasis: Knowledge/Remember
2. Students will be able to share their knowledge of developmental evolutionary biology presented in this course. Students will demonstrate their mastery of their knowledge through weekly discussions. Emphasis: Comprehension/Understand
3. Students will demonstrate their ability to summarize experimental findings in developmental evolutionary biology and apply the relevant information from these findings to our course material. Students will prepare summaries to share in weekly discussion posts. Emphasis: Application
4. Students will demonstrate their ability to analyze the primary literature in developmental evolutionary biology. Students will demonstrate this in written weekly worksheet assignments. Emphasis: Analysis
5. Students will integrate primary literature to our textbook topics and weekly readings. Students will write a collaborative summary to share with the class where they demonstrate their ability to integrate experimental findings in developmental evolutionary biology with course material. Emphasis: Synthesis
6. Students will evaluate other class members' work by participating in weekly discussions and in small groups. Students will evaluate and critique the primary literature collaborative summaries on a weekly basis. Emphasis: Evaluation

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted