Catalog Year 2015-2016

College/School/Section: Arts and Sciences

Course: Add: X Delete: 
(check all that apply) Change: Number Title SCH Description Prerequisite

Response Required: New course will be part of major X minor X as a required ___ or elective X course
Response Required: New course will introduce X, reinforce X, or apply X concepts
Response Required: Grade Type X Normal (A-F) CR/NC P/F

If new, provide Course Prefix, Number, Title, Measurable Student Learning Outcomes, SCH Value, Description, prerequisite, and lecture/lab hours if applicable. If in current online catalog, provide change and attach text with changes in red and provide a brief justification.

BIOL 5475

Advanced Evo-Devo (Evolutionary Developmental Biology)

4 semester hours

The objective of this course is to integrate two disciplines, evolutionary biology and developmental biology into a common framework of genetics. The focus will be on the evolution of developmental genetic pathways in order to explain the evolution of animal development. This course will explore how our growing knowledge of developmental circuits, and their variation, affects our understanding of how organisms evolve. Prerequisite: BIOL 3413.

Justification
Adding course to catalog that is now being taught as a special topic course and is expected to be taught repeatedly.

Approvals:

Chair
Department Curriculum Committee

Chair
Department

Chair
College Curriculum Committee

Dean

Provost 06/2014

Signature

Date

Neal McReynolds Digitally signed by Neal McReynolds
DN: c=US, st=Texas, l=Abilene, ou=Abilene Christian University, cn=Neal McReynolds
Date: 2015/02/16 11:37:07 -06'00'

Dan Mott Digitally signed by Dan Mott
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Learning Outcomes:

Upon completion of this course, students will be expected to:
1. Analyze the general principles governing the genetic basis of developmental change.
2. Evaluate how evolution is connected to development and that development is a vehicle for evolutionary change.
3. Appraise knowledge that comes from diverse fields in biology
4. Apply methods from scientists to ask and answer fundamental and otherwise unanswerable questions.