

09-024

# UNDERGRADUATE CURRICULUM PROPOSAL COVER SHEET

Title of Proposal – Must begin with Department Abbreviation:

BIOL - Modification of Prerequisite Classes for Biol403-Developmental Vertebrate Embryology

Check One:  Full Proposal or  Information Item

Effective Date for Curricular Offering: Fall 2009

FROM: Ethan A. Carver, Biological and Environmental Sciences, Holt Hall 227, 425-4315, ethan-carver@utc.edu  
(proposal originator: include spokesperson's name, department, office number, telephone, e-mail)

Does this require new resources from the originating department or other department? NO  
Please attach explanation if yes.

Faculty of the originating department approved this proposal on 11/7/08 (date),  
by a vote of 16 aye votes; 0 nay votes; 1 abstentions: 1 eligible voting members absent

The following have examined this proposal:

Dept Head/Director: John C. Tucker John C. Tucker  approve  neutral  disapprove\*  
(printed name) signature

College Curriculum Committee Date: \_\_\_\_\_ Vote: \_\_\_\_\_ Signature of Chair: \_\_\_\_\_

Spokespersons for Affected Departments:

\_\_\_\_\_  
(name, department, date) signature approve neutral disapprove\*

Dean/Director: H. Burhenn H. Burhenn  approve  neutral  disapprove\*  
signature

University Registrar: Linda Orth Linda Orth Comments: \_\_\_\_\_  
(printed name) signature

Provost: Phil Oldham Phil Oldham  approve  neutral  disapprove\*  
(printed name) signature

\*Those who disapprove may attach an explanation

ACTIONS on this proposal:	Curriculum Committee	Faculty Senate
Date the proposal was considered	_____	_____
Vote of the body:	_____	_____
Accepted as information item (indicate date)	_____	_____
Approved as submitted (indicate date)	_____	_____
Approved with amendments (amendments indicated and transmitted to all signatories above, date):	_____	_____
Signature of Chair:	_____	_____

This proposal seeks to modify the prerequisites for Biol403 (Developmental Vertebrate Embryology).

**Rationale:** The need to change the prerequisites for this class stem from the rapidly changing field of developmental biology. This discipline over the last 10 years has undergone a seminal shift in research, with a major emphasis on genetics and molecular events that drive cellular changes during development. Now, most developmental biology textbooks assume a moderate knowledge of genetics and molecular biology and use these ideas to describe their impact on developing organisms. Therefore, this prerequisite change would more accurately reflect the level of knowledge students need to successfully understand and complete this class. Biology 325 is a required class for all Biology majors, so students do not have to take an additional course; just modify the order in which they take the courses. Biology 122 is removed as a prerequisite for Biology 403 because it is a prerequisite for Biology 325

**Current catalog description** (p82 in 2008/9 catalog)

**403 Developmental Vertebrate Embryology (4)**

Current developmental processes and concepts drawn from selected invertebrate studies, but with major emphasis on experimentation in higher vertebrates.

Laboratory explores vertebrate development through embryological slides, films and experimentation. Spring semester. *Lecture 2 hours, laboratory 4 hours.*

*Prerequisite: Biology 122 with a minimum grade of C; Biology 313 and 325 recommended.*

*Pre-or corequisite: Chemistry 352/354. Approval of the instructor in some cases. Laboratory/studio course fee will be assessed*

**Proposed catalog description: (Changes underlined)**

**403 Developmental Vertebrate Embryology (4)**

Current developmental processes and concepts drawn from selected invertebrate studies, but with major emphasis on experimentation in higher vertebrates.

Laboratory explores vertebrate development through embryological slides, films and experimentation. Spring semester. *Lecture 2 hours, laboratory 4 hours.*

*Prerequisite: Biology 325; Biology 313 recommended.*

*Pre-or corequisite: Chemistry 352/354. Laboratory/studio course fee will be assessed*

**Impact:**

**Pedagogical consequences:** This change will give students a better background knowledgebase for the concepts presented in this class.

**Economic impact:** The economic impact of this course should be minimal to the department.

**External impact:** No major impact on requirements and resources in other departments or programs is expected.