COLLEGE/SCHOOL/SECTION: COAS Biology & Chemistry

Course: Add: ___ Delete: ___
(possible all that apply) Change: Number ___ Title ___ SCH ___ Description ___ Prerequisite ___ x ___

Response Required: New course will be part of major ___ minor ___ as a required ___ or elective ___ course

Response Required: New course will introduce ___, reinforce ___, or apply ___ concepts

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.

Program: Delete: ___ Add: ___ Change: ___ Attach new/changed Program of Study description and 4-year plan. If in current online catalog, provide change and attach text with changes in red.


Minor: Add: ___ Delete: ___ Change: ___ Attach new/changed minor. If in current online catalog, provide change and attach text with changes in red.

College Introductory Pages: Add information: ___ Change information: ___ Attach new/changed information. If in current online catalog, provide change and attach text with changes in red.

Other: Add information: ___ Change information: ___ Attach new/changed information. If in current online catalog, provide change and attach text with changes in red.

Justification: Current prerequisites unjustified and unnecessary for successful completion of upper division courses. Allows BSIS with certification students to take necessary upper division courses.

Approvals: 

Chair
Department Curriculum Committee

Signature: Tom Vaughan
Date: __________________

Chair
Department

Signature: Dan Mott
Date: __________________

Chair
College Curriculum Committee

Signature: Kevin Lindberg
Date: __________________

Dean

Signature: Kevin Lindberg
Date: __________________
BIOL 3406
Evolution
Four semester hours. (FL)
Genetic and ecological basis of evolutionary changes within populations of plants and animals. Historical, morphological, biochemical, behavioral, and biogeographical evidence will be considered. A discussion section is required. Prerequisite: BIOL 1406 and BIOL 1411, 1413 or 2421.

BIOL 3411
Cell Biology
Four semester hours.
An introduction to the structure and function of eukaryotic cells. Emphasis is placed on the biochemical and biological characteristics of macromolecules and organelles. The major experimental tools used in modern cell biology are presented in the context of research. Topics include membranes, structure and function of proteins, energy conversion, the maintenance of cellular compartments, and transmembrane and cell-cell signaling. Prerequisites: BIOL 1406 and BIOL 1411, BIOL 1413 or BIOL 2421 and CHEM 2423 or permission of instructor. Lab fee: $27.25.

BIOL 3413
Introduction to Genetics
Four semester hours.
A study of the basic principles of the science of heredity, with an emphasis in classical and molecular genetics. Classical and molecular approaches are discussed as applied to a range of organisms from bacteria to man. Prerequisites: BIOL 1406 and BIOL 1411, BIOL 1413 or BIOL 2421 and CHEM 2423 or permission of instructor. Lab fee: $27.25.