



College Document # \_\_\_\_\_  
UCC Document # UCC140  
Date Received 01/24/06

CATALOG YEAR \_\_\_\_\_  
(Please use separate form for each add/change)

COLLEGE/SCHOOL : Arts & Science \_\_\_\_\_

Current Catalog Page(s) Affected 258-260 \_\_\_\_\_

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

If new, provide Course Prefix, Number, Title, SCH Value, Description, prerequisite, and lecture/lab hours if applicable. If in current catalog, copy and paste the text from the [on-line catalog](#) and indicate changes in red.

BIOL 2421

General Microbiology

Four semester hours. ~~(SP)~~

A survey of microbiology. Topics include structure, growth, reproduction, metabolism, genetics, and taxonomy of microorganisms; a survey of microorganisms of soil, water, foods, and industry. Prerequisites: BIOL 1406, 1411 or 1413, and CHEM 1411. Lecture/laboratory. Laboratory Fee: \$30.00.

BIOL 3403

Human Anatomy

Four semester hours. ~~(FL)~~

A laboratory-based intensive study of the gross structure of organs and organ systems. Suggested for prehealth professional students. Prerequisites: BIOL 1406/1411/1413 or permission of instructor. Lecture/laboratory. Laboratory Fee: \$30.00.

BIOL 3404

Animal Physiology

Four semester hours. ~~(FL)~~

An in-depth study of functions and mechanisms related to homeostasis, energetics, temperature and fluid regulation, and nervous and hormonal control. Prerequisites: BIOL 1406/1411/1413 and CHEM 2425; BIOL 3403 strongly recommended. Lecture only.

BIOL 3405

Plant Physiology

Four semester hours.

A study of physiology of plants with emphasis on nitrogen metabolism, respiration, mineral nutrition, photosynthesis, physiological effects of hormones and photoperiodism and growth. Prerequisites: BIOL 1406/1411/1413 and CHEM 2425. Laboratory fee: \$30.00.

### BIOL 3412

#### Cell Biology

Four semester hours. ~~(FL)~~

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 2403 or~~ BIOL 2421 and CHEM 2423 or permission of instructor. Laboratory fee: \$30.00.

### BIOL 3413

#### Introduction to Genetics

Four semester hours. ~~(SP)~~

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 2403 or~~ BIOL 2421 and CHEM 2423 or permission of instructor. Laboratory fee: \$30.00.

### BIOL 4404

#### Herpetology

Four semester hours.

A study of the anatomy, evolution, distribution, systematics, ecology, and physiology of amphibians and reptiles; primarily North American species with special emphasis on local representatives. Prerequisite: BIOL 1406 ~~and BIOL 1407/1411/1413~~ or permission of instructor. Saturday field trips required. Laboratory fee: \$30.00.

Justification: BIOL 2403 was deleted last year and not all prerequisites were changed as requested. The prerequisites for these course need to be changed. Courses are sometimes taught both semesters, or as needed so the SP and FL have been deleted.

**Program:** Add: \_\_\_\_\_ Change: \_\_\_\_\_ Attach new/changed Program of Study description and 4-year plan. If in current catalog, copy and paste the text from the [on-line catalog](#) and indicate changes in red.

**Minor:** Add: \_\_\_\_\_ Delete: \_\_\_\_\_ Change: \_\_\_\_\_ Attach new/changed minor. If in current catalog, copy and paste the text from the [on-line catalog](#) and indicate changes in red.

**Faculty:** Add: \_\_\_\_\_ Delete: \_\_\_\_\_ Change: \_\_\_\_\_ Attach new/changed faculty entry.

If in current catalog, copy and paste the text from the [on-line catalog](#) and indicate changes in red.

**College Introductory Pages:** Add information: \_\_\_\_\_ Change information: \_\_\_\_\_  
Attach new/changed information. If in current catalog, copy and paste the text from the [on-line catalog](#) and indicate changes in red.

Approvals:	Signature	Date
Chair Department Curriculum Committee	_____	_____
Chair Department	_____	_____
Chair College Curriculum Committee	_____	_____
Dean	_____	_____