

College Document # 6.4

UCC Document # 128

Review Type:      Edit      Exp      Full

**CATALOG YEAR 2015-2016**

COLLEGE/SCHOOL/SECTION: \_\_\_\_\_

**Course:** Add:      Delete:       
(check 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

**Response Required:** Grade Type      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.

**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.

**Program Learning Outcomes:** Add:      Change:      Attach listing of program learning outcomes.

**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.

Approvals:

Signature

Date

Chair  
Department Curriculum Committee

Neal McReynolds

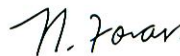
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University, ou=Department of Biology and Chemistry,  
email=nmcreynolds@tamiu.edu, c=US  
Date: 2014.12.05 15:58:31 -0600

Chair  
Department

Dan Mott

Digitally signed by Dan Mott  
DN: cn=Dan Mott, o=TAMU, ou=Biology &  
Chemistry, email=dmott@tamiu.edu, c=US  
Date: 2015.01.22 09:39:03 -0600

Chair  
College Curriculum Committee



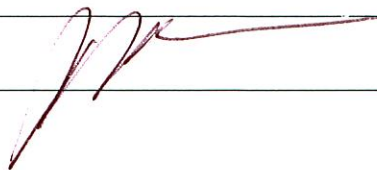
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Frances Bernat

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email=frances.bernat@tamiu.edu, c=US  
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Provost



## **CHEM 3400**

### *Environmental Chemistry*

Four semester hours. (SP)

A course that develops quantitative analytical techniques for monitoring and assessing toxins and pollutants in the environment. Three hours of laboratory per week. Prerequisites: CHEM ~~1411~~ **1311/1111** and CHEM ~~2423~~. Lab fee: \$27.25.

## **CHEM 3451**

### *Biochemistry I*

Four semester hours. (SP)

An introduction to modern biochemistry using fundamental chemical principles. Topics covered include proteins, carbohydrates, lipids, nucleic acids, bioenergetics, enzymology, and metabolism, with an emphasis on interrelationships between metabolic pathways and regulation. Prerequisites: BIOL ~~1406~~ **1306/1106** and CHEM ~~2423~~ or permission of instructor. Cross-listed with BIOL ~~3451~~. Credit cannot be given for both BIOL ~~3451~~ and CHEM ~~3451~~. Lab fee: \$27.25.

## **BIOL 2421 (BIOL 2421)**

### *General Microbiology*

Four semester hours.

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~~ **1306/1106**, BIOL ~~1311/1111~~ or BIOL ~~1413~~ and CHEM ~~1311/1111~~. Lecture /laboratory. Lab fee: \$27.25.