College Document # CCC11 **UCC Document #** 13

Review Type: ___**Edit** ___ **Exp** XX **Full**

CATALOG YEAR 2016-2017

COLLEGE/SCHOOL/SECTION: College of 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.

Prerequisite: Consent of instructor.

Prerequisite added per department representative and UCC agreement.

BIOL 4411

Animal Nutrition

4 semester hours

A study of nutritive requirements for domestic animals, including ruminants and monogastrics. Topics covered include the digestive system, nutrient metabolism, design of diets from available feed stuffs, and an introduction to feed and labeling laws.

Justification

The Schools of Veterinary Medicine require this course as a prerequisite for admission. We have offered this course as a Current Topics in Biology course for several years. However, the students have some issues with the admission process because the title of the course is not Animal Nutrition.

Approvals:	Signature	Date
Chair Department Curriculum Committee	Neal McReynolds Digitally signed by Neal McReynolds DN: cn=Neal McReynolds, o=Texas A-M Interantational University, ou=Department of Biology and Chemistry, email=nmcreynolds@tamiu.edu, c=US Date: 2015.09.22 08:49:41 -06'00'	
Chair Department	Dan Mott Digitally signed by Dan Mott DN: cn=Dan Mott, o=TAMIU, ou=B&C, email=dmott@tamiu.edu, c=US Date: 2015.09.22 10:08:51 -05'00'	
Chair College Curriculum Committee	Monica Mendez Digitally signed by Monica Mendez DN: cn=Monica Mendez, o=Texas A&M International University, ou=Dept of Biology & Chemistry, email=monica.mendez@tamiu.edu, c=US Date: 2015.09.23 12:04:18 -05'00'	
Dean	Frances Bernat Digitally signed by Frances Bernat DN: cn=Frances Bernat, o=TAMIU, ou=COAS, email=frances.bernat@tamiu.edu, c=US Date: 2015.09.23 12:31:16 -05'00'	
Provost		10/12/15

Learning Outcomes

A) Writing:

(1) The student will produce a review article related to an animal nutrition research question.

B) Comprehension:

(1) The student will be able to discriminate digestion and nutrient metabolism characteristics between ruminants and monogastrics.

(2) The student will be able to discriminate among different feedstuffs by nutrient content and digestibility for each group of animals.

C) Analysis and evaluation:

(1) The student will be able to design diets that will include the nutrient requirements from the appropriate feedstuffs for ruminants and monogastrics.

(2) The student will be able to assess diets by availability of feedstuffs and cost.

(3) The student will be able to interpret and apply the appropriate feed and labeling laws.