UNIVERSITY FACULTY SENATE FORMS

Academic Program Approval

This form is a routing document for the approval of new and revised academic programs. Proposing department should complete this form. For more information, call the Faculty Senate Office at 831-2921.

Submitted by: Limin Kung, Jr. phone number 2524
Department: Animal & Food Science email address lksilage@udel.edu
Date: Nov 20, 2009

Action: Add options for students to fulfill physiology requirement for the ANFS major
(Example: add major/minor/concentration, delete major/minor/concentration, revise major/minor/concentration, academic unit name change, request for permanent status, policy change, etc.)

Effective term 10F (use format 04F, 05W)

Current degree ANFS (Example: BA, BACH, BACJ, HBA, EDD, MA, MBA, etc.)

Proposed change leads to the degree of: (Example: BA, BACH, BACJ, HBA, EDD, MA, MBA, etc.)

Proposed name: Proposed new name for revised or new major/minor/concentration/academic unit (if applicable)

Revising or Deleting:

Undergraduate major / Concentration: Animal and Food Science major
(Example: Applied Music – Instrumental degree BMAS)

Undergraduate minor:
(Example: African Studies, Business Administration, English, Leadership, etc.)

Graduate Program Policy statement change:
(Must attach your Graduate Program Policy Statement)

Graduate Program of Study:
(Example: Animal Science: MS Animal Science: PHD Economics: MA Economics: PHD)

Graduate minor / concentration:

Note: all graduate studies proposals must include an electronic copy of the Graduate Program Policy Document, highlighting the changes made to the original policy document.

List new courses required for the new or revised curriculum. How do they support the overall program objectives of the major/minor/concentrations)?
(Be aware that approval of the curriculum is dependent upon these courses successfully passing through the Course Challenge list. If there are no new courses enter “None”)

The current ANFS major has physiology requirement of BISC306. We wish to give students options in fulfilling this requirement by allowing to now take either BISC306, ANFS441 (reproductive physiology) or ANFS442 (lactation physiology).

Explain, when appropriate, how this new/revised curriculum supports the 10 goals of undergraduate education: http://www.ugs.udel.edu/gened/

Identify other units affected by the proposed changes:
(Attach permission from the affected units. If no other unit is affected, enter “None”)

None

Describe the rationale for the proposed program change(s):
(Explain your reasons for creating, revising, or deleting the curriculum or program.)

The current ANFS major has physiology requirement of BISC306. We wish to give students options in fulfilling this requirement by allowing to now take either BISC306, ANFS441 (reproductive physiology) or ANFS442 (lactation physiology).

Program Requirements:
(Show the new or revised curriculum as it should appear in the Course Catalog. If this is a revision, be sure to indicate the changes being made to the current curriculum and include a side-by-side comparison of the credit distribution before and after the proposed change.)

DEGREE: BACHELOR OF SCIENCE
MAJOR: ANIMAL AND FOOD SCIENCES

CURRENT:
CURRICULUM CREDITS
See University and College Requirements

Math and Science Requirements

MATH 221 Calculus I
BISC 207/BISC 208 Introductory Biology I and II
CHEM 101/CHEM 102 or
CHEM 103/CHEM 104 General Chemistry I and II
CHEM 213 Elementary Organic Chemistry
CHEM 214/CHEM 216 Elementary Biochemistry w/lab
BISC 306 General Physiology

MAJOR REQUIREMENTS
A minimum grade of C- is required for all ANFS credits used to satisfy the major requirements.

ANFS 101 Introduction to Animal Science 3
ANFS 102 Food for Thought 3
ANFS 111 Animal Science Laboratory
ANFS 140 Functional Anatomy
ANFS 230 Foodborne Diseases (or ANFS 332 Animal Diseases)
ANFS 251 Animal Nutrition
ANFS 252 Animal Nutrition Laboratory
ANFS 265 Sophomore Seminar
ANFS 300 Principles of Animal and Plant Genetics
ANFS 305 Food Science (or ANFS 315 Food Safety)

One of the following 4-credit capstone/production courses: 4
ANFS 404 Dairy Production
ANFS 411 Food Science Capstone
ANFS 417 Beef Cattle and Sheep Production
ANFS 418 Swine Production
ANFS 421 Poultry Production
ANFS 420 Equine Reproductive Management

A minimum of 6 credits from the following, to include at least two courses

ANFS 409 Food Processing
ANFS 419 Topics in International Animal Agriculture
ANFS 424 Non Ruminant Nutrition
ANFS 435 Animal Virology
ANFS 436 Immunology of Domestic Animals
ANFS 439 Food Microbiology
ANFS 441 Reproductive Physiology of Domestic Animals
ANFS 442 Lactational Physiology
ANFS 445 Comparative Physiology of Domestic Animals
ANFS 449 Food Biotechnology
ANFS 454 Ruminant Nutrition
ANFS 386 ANFS 466 Independent Study (max)
ANFS 468 Research 33 (max)
ANFS 470 Principles of Molecular Genetics

Second writing requirement (with a minimum grade of C-) 3**
A second writing course involving significant writing experience. The course must be taken after completion of 60 credit hours. Approved courses are designated each semester. (**These credits can be used to satisfy credit requirements in the breadth requirements for Literature and Arts)

ELECTIVES
Variable to complete a total of 124 credits
After required courses are completed, sufficient credits must be taken to meet the minimum requirements for the degree. Only 4 credits of HESC 120 or 4 credits of performing Music credit may be counted toward the degree. ANFS 389 may be taken P/F for a maximum of 2 credits toward the degree. No more than 5 credits of ANFS X66 may be counted towards the major.

Students should consult with their advisor regarding the choice of elective credits. Students wishing to concentrate their efforts in the areas of Production Systems, Equine and Companion Animals, Food Safety, or Biotechnology are strongly encouraged to consider the recommended course selections provided by the department.

CREDITS TO TOTAL A MINIMUM OF 124

PROPOSED:
DEGREE: BACHELOR OF SCIENCE
MAJOR: ANIMAL AND FOOD SCIENCES

CURRICULUM CREDITS
See University and College Requirements
Math and Science Requirements

MATH 221 Calculus I
BISC 207/BISC 208 Introductory Biology I and II
CHEM 101/102 or
CHEM 103/104 General Chemistry I and II
CHEM 213 Elementary Organic Chemistry
CHEM 214/216 Elementary Biochemistry w/lab
One of the following courses:
BISC 306 General Physiology 3
ANFS441 Reproductive Physiology 3
ANFS442 Lactation Physiology 3

MAJOR REQUIREMENTS
A minimum grade of C- is required for all ANFS credits used to satisfy the major requirements.

ANFS 101 Introduction to Animal Science 3
ANFS 102 Food for Thought 3
ANFS 111 Animal Science Laboratory 1
ANFS 140 Functional Anatomy 4
ANFS 230 Foodborne Diseases (or ANFS 332 Animal Diseases) 3
ANFS 251 Animal Nutrition 3
ANFS 252 Animal Nutrition Laboratory 1
ANFS 265 Sophomore Seminar 1
ANFS 300 Principles of Animal and Plant Genetics 3
ANFS 305 Food Science (or ANFS 315 Food Safety) 3

One of the following 4-credit capstone/production courses : 4
ANFS 404 Dairy Production
ANFS 411 Food Science Capstone
ANFS 417 Beef Cattle and Sheep Production
ANFS 418 Swine Production
ANFS 421 Poultry Production
ANFS 420 Equine Reproductive Management

A minimum of 6 credits from the following, to include at least two courses

ANFS 409 Food Processing 3
ANFS 419 Topics in International Animal Agriculture 3-4
ANFS 424 Non Ruminant Nutrition 3
ANFS 435 Animal Virology 3
ANFS 436 Immunology of Domestic Animals 3
ANFS 439 Food Microbiology 3
ANFS 441 Reproductive Physiology of Domestic 3
ANFS 442 Lactational Physiology 3
ANFS 445 Comparative Physiology of Domestic Animals 3
ANFS 449 Food Biotechnology 4
ANFS 454 Ruminant Nutrition 3
ANFS 366/ANFS 466 Independent Study 3 (max)
ANFS 468 Research 33 (max)
ANFS 470 Principles of Molecular Genetics 3

Second writing requirement (with a minimum grade of C-): 3**
A second writing course involving significant writing experience. The course must be taken after completion of 60 credit hours. Approved courses are designated each semester. (**These credits can be used to satisfy credit requirements in the breadth requirements for Literature and Arts)

ELECTIVES
Variable to complete a total of 124 credits
After required courses are completed, sufficient credits must be taken to meet the minimum requirements for the degree. Only 4 credits of HESC 120 or 4 credits of performing Music credit may be counted toward the degree. ANFS 399 may be taken P/F for a maximum of 2 credits toward the degree. No more than 5 credits of ANFS X66 may be counted towards the major.

Students should consult with their advisor regarding the choice of elective credits. Students wishing to concentrate their efforts in the areas of Production Systems, Equine and Companion Animals, Food Safety, or Biotechnology are
strongly encouraged to consider the recommended course selections provided by the department.

CREDITS TO TOTAL A MINIMUM OF 124

ROUTING AND AUTHORIZATION:  (Please do not remove supporting documentation.)

Department Chairperson                     Assistant Chair                     Date 12/1/09
Dean of College                             Date 2/19/2010
Chairperson, College Curriculum Committee   Date 2/22/10
Chairperson, Senate Com. on UG or GR Studies Date
Chairperson, Senate Coordinating Com.       Date
Secretary, Faculty Senate                    Date
Date of Senate Resolution                    Date to be Effective
Registrar                                     Program Code                     Date
Vice Provost for Academic Affairs & International Programs Date
Provost                                       Date
Board of Trustee Notification                 Date

Revised 02/09/2009  /khs