

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 221Calculus I3

BISC 207/BISC 208Introductory Biology I and II8

CHEM 101/CHEM 102 or

CHEM 103/CHEM 104General Chemistry I and II8

CHEM 213Elementary Organic Chemistry4

CHEM 214/CHEM 216Elementary Biochemistry w/lab4

BISC 306General Physiology3

MAJOR REQUIREMENTS

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

ANFS 101Introduction to Animal Science3

ANFS 102Food for Thought3

ANFS 111Animal Science Laboratory1
ANFS 140Functional Anatomy4
ANFS 230Foodborne Diseases (or ANFS 332 Animal Diseases)3
ANFS 251Animal Nutrition3
ANFS 252Animal Nutrition Laboratory1
ANFS 265Sophomore Seminar1
ANFS 300Principles of Animal and Plant Genetics3
ANFS 305Food Science (or ANFS 315 Food Safety)3

One of the following 4-credit capstone/production courses :4

ANFS 404Dairy Production
ANFS 411Food Science Capstone
ANFS 417Beef Cattle and Sheep Production
ANFS 418Swine Production
ANFS 421Poultry Production
ANFS 420Equine Reproductive Management

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

ANFS 409Food Processing3
ANFS 419Topics in International Animal Agriculture3-4
ANFS 424Non Ruminant Nutrition3
ANFS 435Animal Virology3
ANFS 436Immunology of Domestic Animals3
ANFS 439Food Microbiology3
ANFS 441Reproductive Physiology of Domestic3
ANFS 442Lactational Physiology3
ANFS 445Comparative Physiology of Domestic Animals3
ANFS 449Food Biotechnology4
ANFS 454Ruminant Nutrition3
ANFS 366/ANFS 466Independent Study3 (max)
ANFS 468Research 33 (max)
ANFS 470Principles of Molecular Genetics3

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

PROPOSED:

DEGREE: BACHELOR OF SCIENCE

MAJOR: ANIMAL AND FOOD SCIENCES

CURRICULUM CREDITS

See University and College Requirements

Math and Science Requirements

MATH 221Calculus I3

BISC 207/BISC 208Introductory Biology I and II8

CHEM 101/CHEM 102 or

CHEM 103/CHEM 104General Chemistry I and II8

CHEM 213Elementary Organic Chemistry4

CHEM 214/CHEM 216Elementary Biochemistry w/lab4

One of the following courses:

BISC 306 General Physiology 3

ANFS441 Reproductive Physiology 3

ANFS442 Lactation Physiology 3

MAJOR REQUIREMENTS

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ANFS 101Introduction to Animal Science3

ANFS 102Food for Thought3

ANFS 111Animal Science Laboratory1

ANFS 140Functional Anatomy4

ANFS 230Foodborne Diseases (or ANFS 332 Animal Diseases)3

ANFS 251Animal Nutrition3

ANFS 252Animal Nutrition Laboratory1

ANFS 265Sophomore Seminar1

ANFS 300Principles of Animal and Plant Genetics3

ANFS 305Food Science (or ANFS 315 Food Safety)3

One of the following 4-credit capstone/production courses :4

ANFS 404Dairy Production

ANFS 411Food Science Capstone

ANFS 417Beef Cattle and Sheep Production

ANFS 418Swine Production

ANFS 421Poultry Production

ANFS 420Equine Reproductive Management

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

ANFS 409Food Processing3

ANFS 419Topics in International Animal Agriculture3-4

ANFS 424Non Ruminant Nutrition3

ANFS 435Animal Virology3

ANFS 436Immunology of Domestic Animals3

ANFS 439Food Microbiology3

ANFS 441Reproductive Physiology of Domestic3

ANFS 442Lactational Physiology3

ANFS 445Comparative Physiology of Domestic Animals3

ANFS 449Food Biotechnology4

ANFS 454Ruminant Nutrition3

ANFS 366/ANFS 466Independent Study3 (max)

ANFS 468Research 33 (max)

ANFS 470Principles of Molecular Genetics3

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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 ~~Jack Gelb~~ Assistant chair for Jack Gelb Date 12/1/09
Dean of College Robin W. Mox Date 2/19/2010
Chairperson, College Curriculum Committee David J. J. J. 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