

# 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. A checklist is available to assist in the preparation of a proposal. For more information, call the Faculty Senate Office at 831-2921.

**Submitted by:** Kali Kniel phone number 302-831-6513

**Department:** Animal and Food Sciences email address kniel@udel.edu

**Date:** November 19, 2013

**Action:** Addition of an Equine Science minor

(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** 14F

(use format 04F, 05W)

**Current degree** \_\_\_\_\_

(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 minor in Equine Science

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

**Revising or Deleting:**

**Undergraduate major / Concentration:** \_\_\_\_\_

(Example: Applied Music – Instrumental degree BMAS)

**Undergraduate minor:** Proposed New Minor in Equine Science

(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")

There are no new courses being created for this minor; however two courses were revised; including 1) the removal of pre-requisites, removal of a laboratory component, and new description for ANFS 220 and 2) removal of pre-requisites for ANFS 426. These actions were submitted in order to help students be able to have the courses needed to complete the minor in Equine Science.

**Supply support letter from the Library, Dean, and/or Department Chair if needed**  
(all new majors/minors will need a support letter from the appropriate administrator.)

Please find the letter of support for the Department of Animal and Food Sciences' Chair, Jack Gelb.

**Supply a resolution for all new majors/programs; name changes of colleges, departments, degrees; transfer of departments from one college to another; creation of new departments; requests for permanent status. See example of resolutions.**

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

The new minor in Equine Science supports the goals of the Department of Animal and Food Sciences to provide our students with opportunities for advanced critical thinking in areas of science, including learning at the level of basic and applied sciences. Courses within this minor will include many aspects of oral and written communication and active and hands-on learning. Some additional course information is available at [http://ag.udel.edu/anfs/anfs\\_courseinformation.html](http://ag.udel.edu/anfs/anfs_courseinformation.html).

**Identify other units affected by the proposed changes:**

(Attach permission from the affected units. If no other unit is affected, enter "None")

Email correspondence from Dr. Blake Meyers, Chair of the Department of Plant and Soil Science is attached to show that he is in support of the minor including the course PLSC 441, Forage Resources Management.

**Describe the rationale for the proposed program change(s):**

(Explain your reasons for creating, revising, or deleting the curriculum or program.)

The new minor was created after several years of thought over who might benefit from this minor. Generous gifts from a donor helped lead the final steps to the creation of this minor. The UDaily article is found here <http://www.udel.edu/udaily/2013/jan/equine-gift-012113.html>. On the Webb Farm, the Department of Animal and Food Sciences and the College of Agriculture and Natural Resources have tremendous teaching facilities for equine studies, one of the best in the country. Courses in this minor will utilize this space and build on the interest in equine science at UD. Interestingly, after several student surveys, the majority of interest in this minor does not come from the students within the Department of Animal and Food Sciences; however, the students are majoring in other areas and have a profound love and interest in horses for which the additional science offered in this minor will complement very well. This area of the country is the perfect one for students to learn about equine science.

**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.) See example of side by side.

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

Department Chairperson *Victoria E. Kent* Date 11/18/13  
Dean of College *[Signature]* Date 12/4/13  
Chairperson, College Curriculum Committee *David J. Gray* Date 11/27/13  
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

The new minor in Equine Science consists of 5 courses, including 1 capstone course. 16 cr hrs.

1. PLSC 441 Forage Resource Management. 3 cr hrs. Exploration of the various grasses, legumes, and forbs that have a potential as forage crops. Discussions will cover characteristics of each species that make it suited for a particular type of forage use. Cultural practices for successful plantings, maintenance, harvest and storage and preservation will be covered.

2. ANFS 220. Introduction to Equine Science. 3 cr hrs. An overview of equine science which focuses on the unique equine biology, function and husbandry of the horse.

3. ANFS 324. Equine Diseases and Lameness. 3 cr hrs. A study of infectious and non-infectious diseases common to the horse. Principles of pathophysiology, manifestation, prevention, and control of disease will be emphasized. Approximately one third of course content will include types, cause, prevention, and management of musculoskeletal disease (lameness) in the horse.

4. ANFS 426. Equine Management 4 cr hrs. Application of scientific principles of nutrition, health care, behavior, reproduction, and farm management to the discipline of horse management. Laboratory provides hands-on experience. Intended for students interested in the horse industry. ANFS 220 or previous equine experience is recommended. Laboratory may require some out-of-class time for hands-on experience.

5. ANFS 261 Principles of Companion Animal Nutrition. 3 cr hrs. A broad overview of the principles of nutrition as they are applied to companion animals with emphasis on canine, feline, and equine nutrition.

OR

ANFS 350 Animal Behavior. 3 cr hrs. Introduction to domestic and companion animal behavior, in relation to animal management, production, and welfare. Lectures cover animal behavior and its basis, including genetic, physiological and environmental factors, as well as different types of behavior, including communication, feeding, social, parental, and others.



COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

DEPARTMENT OF ANIMAL  
AND FOOD SCIENCES

Townsend Hall  
University of Delaware  
Newark, Delaware 19716-2150  
Ph: 302/831-2524

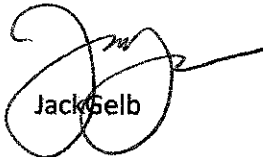
November 27, 2013

Dear Undergraduate Committee and Faculty Senate,

The Department of Animal and Food Sciences is proposing the creation of a new minor in Equine Science. This minor will capture interest from students within various areas of study at the University of Delaware. This minor is science-based and composed of a unique offering of 16 credit hours in 5 courses. The Department has thought for a long period of time over the creation of this minor.

Thank you for your dedication to undergraduate education at the University of Delaware. We feel that this minor will be a great addition to the offerings at UD.

Sincerely,



Jack Selb

## **Kniel-Tolbert, Kalmia Elisabeth**

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**From:** Blake Meyers <meyers@dbi.udel.edu>  
**Sent:** Thursday, November 21, 2013 5:10 PM  
**To:** Kniel-Tolbert, Kalmia Elisabeth  
**Subject:** Re: PLSC 441

Dear Kali,

I'm entirely supportive of this. Please let me know if you need anything official (i.e. a letter), or if this email will suffice.

Best,  
Blake

On Nov 22, 2013, at 1:16 AM, "Kniel-Tolbert, Kalmia Elisabeth" <kniel@udel.edu> wrote:

Good afternoon Blake,

We are proposing that PLSC 441 be a part of our new equine minor. As you can see from the emails below, the faculty in PLSC have given their permission for this. I hope you will also agree to the inclusion of this course in our new equine minor., which is attached for your review.

Thank you for your time and consideration,  
Kali

Kalmia E. Kniel, Ph.D.  
Associate Professor, Microbial Food Safety  
Assistant Chair, Department of Animal and Food Sciences  
College of Agriculture and Natural Resources

University of Delaware  
531 S College Ave, 044 Townsend Hall  
Newark, DE 19716  
302-831-6513

**COPY**

**From:** Taylor, Richard W  
**Sent:** Thursday, November 07, 2013 11:17 AM  
**To:** Kniel-Tolbert, Kalmia Elisabeth  
**Cc:** Vasilas, Bruce Larue; Limin Kung ([lksilage@apps.ag.udel.edu](mailto:lksilage@apps.ag.udel.edu))  
**Subject:** RE: PLSC 441

Kali,

I and my co-teachers (Bruce Vasilas and Limin Kung) would be thrilled to have PLSC441 be included as part of the proposed equine minor. We very much would enjoy having more students take the course since it helps stimulate much more discussion with the students which I think helps them learn more about forages.

Richard

**From:** Kniel-Tolbert, Kalmia Elisabeth  
**Sent:** Thursday, November 07, 2013 10:58 AM  
**To:** Taylor, Richard W  
**Subject:** PLSC 441

Good Morning Richard,

I believe you had a conversation with Lesa Griffiths about the inclusion of your course PLSC 441 as part of our proposed equine minor. I just want to confirm with you that the additional students in the class over the next few years will be okay with you. Once I get your okay I will send your email to Blake to get his permission as well.

Thank you so much!

Kali

Kalmia E. Kniel, Ph.D.

Associate Professor, Microbial Food Safety

Assistant Chair, Department of Animal and Food Sciences

College of Agriculture and Natural Resources

University of Delaware

531 S College Ave, 044 Townsend Hall

Newark, DE 19716

302-831-6513

<10.25 ANFS CC equine minor final.docx>