Proposal to the Senate Educational Policy Committee

PROPOSAL TITLE: Change in the Name of the Technology and Management Concentration in the Major in Animal Sciences, Department of Animal Sciences, College of Agricultural, Consumer and Environmental Sciences

SPONSOR: David J. Miller, Professor of Animal Sciences and Undergraduate Teaching Coordinator, 333-3408, djmille@illinois.edu

COLLEGE CONTACT: Laurie Kramer, Associate Dean and Professor, 333-3380, lifkramer@illinois.edu

BRIEF DESCRIPTION: We propose to change the name of the Technology and Management Concentration to the Food Animal Production and Management Concentration. The requirements for the concentration will not change.

JUSTIFICATION: Graduates, current students and prospective students have all found that the Technology and Management Concentration, the name of the Animal Sciences concentration that is centered on animal management is vague. We believe the ambiguity contributes to the low enrollment in this concentration. A survey of other Animal Sciences departments in the U.S. indicated that, of those that offered concentrations, most had less ambiguous titles related to Food Animal Production and Management (Appendix A). The name of the proposed concentration will make it easier for graduates to communicate to prospective employers the focus of their education. It will be easier for prospective students to find our curricula and compare them to similar curricula among different universities. The name for the new concentration was proposed and discussed at the departmental Courses and Curriculum meeting after a review of names of similar concentrations at other universities with Animal Sciences departments. It was then approved at a departmental faculty meeting.

BUDGETARY AND STAFF IMPLICATIONS:

1) Resources
   a. How does the unit intend to financially support this proposal? The department will cover the costs of signage, advertising and marketing materials.

   b. How will the unit create capacity or surplus to appropriately resource this program? If applicable, what functions or programs will the unit no longer support to create capacity?
We anticipate that more students will be attracted to this concentration. The additional tuition from those students will provide additional resources needed for the small increase in student enrollment.

c. Will the unit need to seek campus or other external resources? If so, please provide a summary of the sources and an indication of the approved support. No additional resources will be sought.

d. Please provide a letter of acknowledgment from the college that outlines the financial arrangements for the proposed program. No financial arrangements have been requested.

2) Resource Implications
   a. Please address the impact on faculty resources including the changes in numbers of faculty, class size, teaching loads, student-faculty ratios, etc. The anticipated small increase in enrollment can be accommodated by our current faculty. The increase in teaching costs for laboratories can be paid by the increase in tuition from those students.

   b. Please address the impact on course enrollment in other units and provide an explanation of discussions with representatives of those units. *(A letter of acknowledgement from units impacted should be included.)*

   We do not anticipate a change in course enrollments in other units.

   c. Please address the impact on the University Library *(A letter of estimated impact from the University Librarian must be included for all new program proposals. If the impact is above and beyond normal library business practices, describe provisions for how this will be resourced.)*

   We do not anticipate an impact on the University Library.

   d. Please address the impact on technology and space (e.g. computer use, laboratory use, equipment, etc.)

   We do not anticipate an impact on technology and space.

For new degree programs only: This is not a new program but only a name change.

3) Briefly describe how this program will support the University’s mission, focus, and/or current priorities. Include specific objectives and measurable outcomes that demonstrate the program’s consistency with and centrality to that mission.

4) Please provide an analysis of the market demand for this degree program. What market indicators are driving this proposal? What type of employment outlook should these graduates expect? What resources will be provided to assist students with job placement?
5) If this is a proposed graduate program, please discuss the programs intended use of waivers. If the program is dependent on waivers, how will the unit compensate for lost tuition revenue?

**DESIRED EFFECTIVE DATE:** Spring Semester 2017 or as soon as possible

**STATEMENT FOR PROGRAMS OF STUDY CATALOG:** (All proposals must include either a new or revised version of the entry in the Programs of Study Catalog, if applicable. Entries will be published as approved by the Senate. Future changes in the statement for Programs of Study Catalog which reflect changes in the curriculum, must go through the normal review process at the appropriate levels.)

The current Program of Study for the Technology and Management Concentration (re-named Food Animal Production and Management Concentration) will not change.
CLEARANCES: (Clearances should include signatures and dates of approval. These signatures must appear on a separate sheet. If multiple departments or colleges are sponsoring the proposal, please add the appropriate signature lines below.)

Signatures:

[Signature]
Unit Representative: 4-6-16

[Signature]
College Representative: 4-6-16

[Signature]
Graduate College Representative:

[Signature]
Council on Teacher Education Representative:

Date:
## Appendix A:

<table>
<thead>
<tr>
<th>Institution</th>
<th>Name of Related Concentration</th>
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<tbody>
<tr>
<td>Purdue University</td>
<td>Animal Production</td>
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<tr>
<td>Purdue University</td>
<td>Animal Agribusiness</td>
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<tr>
<td>Iowa State University</td>
<td>Livestock Management</td>
</tr>
<tr>
<td>University of Missouri</td>
<td>Animal Production/Business</td>
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<tr>
<td>Michigan State University</td>
<td>Animal Production/Management</td>
</tr>
<tr>
<td>University of California-Davis</td>
<td>Animal Sciences and Management</td>
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<tr>
<td>University of Minnesota</td>
<td>Animal Industry and Business</td>
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<tr>
<td>Washington State University</td>
<td>Animal Production</td>
</tr>
<tr>
<td>Ohio State University</td>
<td>Animal Industries</td>
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<tr>
<td>Penn State University</td>
<td>Animal Business Management</td>
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Appendix B:
The requirements for the Technology and Management Concentration follow. The proposal is only to change the name of the Concentration.
TECHNOLOGY AND MANAGEMENT CONCENTRATION

The Technology and Management Concentration is designed for students intending to pursue a career in animal care and management or one of the associated food production industries. It emphasizes the scientific disciplines and the application of technology involved in animal production and animal products, as well as providing the opportunity to enhance a student's practical knowledge through business courses.

Prescribed Courses including Campus General Education

Composition I and Speech
RHET 105  Writing and Research (or equivalent (see college Composition I requirement)) 4
CMN 101  Public Speaking 3

Advanced Composition
Select from campus approved list. 3-4

Cultural Studies
One Western culture and one non-Western U.S. minority culture course 6

Foreign Language
Coursework at or above the third level is required for graduation.

Quantitative Reasoning I
Select one of the following: 4-5
- MATH 220  Calculus
- MATH 221  Calculus I
- MATH 234  Calculus for Business I

Quantitative Reasoning II
Select one of the following: 3-4
- ACE 261  Applied Statistical Methods
- CPSC 241  Intro to Applied Statistics
- ECON 202  Economic Statistics I
- PSYC 235  Intro to Statistics
- SOC 280  Intro to Social Statistics
- STAT 100  Statistics

Natural Sciences and Technology
CHEM 102  General Chemistry I 4
& CHEM 103  and General Chemistry Lab I
CHEM 104  General Chemistry II 4
& CHEM 105  and General Chemistry Lab II
MCB 100  Introductory Microbiology 5
& MCB 101  and Intro Microbiology Laboratory

Humanities and the Arts
Courses selected from campus approved list 6

Social and Behavioral Sciences
ECON 102  Microeconomic Principles 3-4
or ACE 100  Agr Cons and Resource Econ

Additional social or behavioral science course; cannot be an economics course. 3-4

ACES required
ACES 101  Contemporary Issues in ACES 2

Animal Sciences Required
ANSC 100  Intro to Animal Sciences 4
ANSC 101  Contemporary Animal Issues 3
ANSC 103  Working With Farm Animals 2
ANSC 221  Cells, Metabolism and Genetics 3
ANSC 222  Anatomy and Physiology 3
ANSC 223  Animal Nutrition 3
ANSC 224  Animal Reproduction and Growth 4
ANSC 298  Undergraduate Seminar 1
ANSC 398  UG Experiential Learning 1-5
ANSC 498  Integrating Animal Sciences 2

Technology and Management Concentration Required
Select four of the following: 12
- ANSC 201  Principles of Dairy Production
- ANSC 204  Intro Dairy Cattle Evaluation
- ANSC 205  World Animal Resources
- ANSC 206  Horse Management
- ANSC 209  Meat Animal Carcass Eval
- ANSC 211  Breeding Animal Evaluation
- ANSC 219  Meat Technology
- ANSC 250  Companion Animals in Society
- ANSC 305  Human Animal Interactions
- ANSC 307  Companion Animal Management
- ANSC 310  Meat Selection and Grading
- ANSC 312 Advanced Livestock Evaluation
- ANSC 313  Horse Appraisal
- ANSC 314  Adv Dairy Cattle Evaluation
- ANSC 322  Livestock Feeds and Feeding
- ANSC 370  Companion Animal Policy
- ANSC 400  Dairy Herd Management
- ANSC 401  Beef Production
- ANSC 402  Sheep Production
- ANSC 403  Pork Production
- ANSC 404  Poultry Science
- ANSC 405  Advanced Dairy Management
- ANSC 407  Animal Shelter Management
- ANSC 435  Milk Quality and Udder Health
- ANSC 437  Adv Reproductive Management
- ANSC 471  ANSC Leaders & Entrepreneurs

Select two of the following: 6
- ANSC 306  Equine Science
- ANSC 331  Biology of Reproduction
- ANSC 350  Cellular Metabolism in Animals
- ANSC 363  Behavior of Domestic Animals
- ANSC 366  Animal Behavior
- ANSC 406  Zoo Animal Conservation Sci
- ANSC 409  Meat Science
- ANSC 420  Ruminant Nutrition
- ANSC 421  Minerals and Vitamins
- ANSC 422  Companion Animal Nutrition

Information listed in this catalog is current as of 12/2015
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ANSC 431</td>
<td>Advanced Reproductive Biology</td>
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<tr>
<td>ANSC 438</td>
<td>Lactation Biology</td>
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<td>ANSC 440</td>
<td>Applied Statistical Methods I</td>
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<td>ANSC 441</td>
<td>Human Genetics</td>
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<td>ANSC 444</td>
<td>Applied Animal Genetics</td>
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<td>Population Genetics</td>
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<td>ANSC 448</td>
<td>Math Modeling in Life Sciences</td>
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<td>Biological Modeling</td>
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<td>ANSC 450</td>
<td>Comparative Immunobiology</td>
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<td>ANSC 451</td>
<td>Microbes and the Anim Indust</td>
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<td>ANSC 452</td>
<td>Animal Growth and Development</td>
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<td>ANSC 453</td>
<td>Stem Cell Biology</td>
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<td>ANSC 467</td>
<td>Applied Animal Ecology</td>
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<td>ANSC 509</td>
<td>Muscle Biology</td>
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<td>ANSC 510</td>
<td>Science of Animal Well-Being</td>
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<td>ANSC 520</td>
<td>Protein and Energy Nutrition</td>
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<td>Regulation of Metabolism</td>
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<td>Advanced Ruminant Nutrition</td>
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<td>Techniques in Animal Nutrition</td>
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<td>ANSC 524</td>
<td>Nonruminant Nutrition Concepts</td>
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<td>ANSC 525</td>
<td>Topics in Nutrition Research</td>
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<td>ANSC 526</td>
<td>Adv Companion Animal Nutrition</td>
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<td>ANSC 533</td>
<td>Repro Physiology Lab Methods</td>
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<td>ANSC 541</td>
<td>Regression Analysis</td>
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<td>ANSC 542</td>
<td>Applied Bioinformatics</td>
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<td>ANSC 543</td>
<td>Bioinformatics</td>
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<td>ANSC 545</td>
<td>Statistical Genomics</td>
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<td>ANSC 554</td>
<td>Immunobiological Methods</td>
</tr>
<tr>
<td>ANSC 561</td>
<td>Animal Stress Physiology</td>
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</tbody>
</table>

Additional elective courses must be completed to yield at least 126 total Hours for graduation.

**Total Hours** 126
April 11, 2016

Bettina Francis, Chair
Senate Committee on Educational Policy
Office of the Senate
228 English Building, MC-461

Dear Professor Francis:

Enclosed is a copy of a proposal from the College of Agricultural, Consumer and Environmental Sciences to change the name of the concentration in Technology and Management within the Bachelor of Science in Animal Sciences.

Sincerely,

Kathryn A. Martensen
Assistant Provost

Enclosures

c:  L. Kramer  
S. Lee  
M. Lowry  
R. Chappell  
D. Miller  
A. Edwards
April 6, 2016

Kathy Martensen, Assistant Provost
Office of the Provost
207 Swanlund Administration Building
Campus MC-304

Dear Kathy:

I am writing to request campus-level review for a proposal to change the name of the Technology and Management concentration in the Department of Animal Sciences to Food Animal Production and Management. A copy of the proposal in Senate format is attached, along with appendices documenting the requested name change.

Thank you for your consideration. I look forward to receiving your reply.

Sincerely,

Laurie Kramer
Associate Dean
ACES Academic Programs

LFK/rhc

cc:   S. C. Loerch
      D. J. Miller
      L. M. Redman
      ANSC C&C Binder