

Submit original with signatures + 1 copy + electronic copy to Faculty Senate (Box 7500).
See <http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures/> for a complete description of the rules governing curriculum & course changes.

TRIAL COURSE OR NEW COURSE PROPOSAL

SUBMITTED BY:

Department	NRM	College/School	SNRE
Prepared by	Milan Shipka	Phone	7429
Email Contact	mpshipka@alaska.edu	Faculty Contact	Milan Shipka

1. ACTION DESIRED

(CHECK ONE):

Trial Course

☒ X
Spring 2015

New Course

2. COURSE IDENTIFICATION:

Dept

NRM

Course #

294

No. of Credits

3

Justify upper/lower division status & number of credits:

Introductory lecture course in Animal Science

3. PROPOSED COURSE TITLE:

Introduction to Animal Science

4. To be CROSS LISTED?

YES/NO

no

If yes, Dept:

Course #

NOTE: Cross-listing requires approval of both departments and deans involved. Add lines at end of form for additional required signatures.

5. To be STACKED?

YES/NO

no

If yes, Dept:

Course #

How will the two course levels differ from each other? How will each be taught at the appropriate level?:

Stacked course applications are reviewed by the (Undergraduate) Curricular Review Committee and by the Graduate Academic and Advising Committee. Creating two different syllabi—undergraduate and graduate versions—will help emphasize the different qualities of what are supposed to be two different courses. The committees will determine: 1) whether the two versions are sufficiently different (i.e. is there undergraduate and graduate level content being offered); 2) are undergraduates being overtaxed?; 3) are graduate students being undertaxed? In this context, the committees are looking out for the interests of the students taking the course. Typically, if either committee has qualms, they both do. More info online - see URL at top of this page.

6. FREQUENCY OF OFFERING:

spring semester 2015

Fall, Spring, Summer (Every, or Even-numbered Years, or Odd-numbered Years) - or As Demand Warrants

7. SEMESTER & YEAR OF FIRST OFFERING

(AY2013-14 if approved by 3/1/2013; otherwise AY2014-15)

AY 2014-15 during Spring Semester

8. COURSE FORMAT:

NOTE: Course hours may not be compressed into fewer than three days per credit. Any course compressed into fewer than six weeks must be approved by the college or school's curriculum council. Furthermore, any core course compressed to less than six weeks must be approved by the Core Review Committee.

COURSE FORMAT:

(check all that apply)

☐ 1

☐ 2

☐ 3

☐ 4

☐ 5

☒ x

6 weeks to full semester

OTHER FORMAT (specify)

Mode of delivery (specify lecture, field trips, labs, etc)

Lecture

9. CONTACT HOURS PER WEEK:

3

LECTURE
hours/weeksLAB
hours /weekPRACTICUM
hours /week

Note: # of credits are based on contact hours. 800 minutes of lecture=1 credit. 2400 minutes of lab in a science course=1 credit. 1600 minutes in non-science lab=1 credit. 2400-4800 minutes of practicum=1 credit. 2400-8000 minutes of internship=1 credit. This must match with the syllabus. See <http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/guidelines-for-computing-/> for more information on number of credits.

OTHER HOURS (specify type)

10. COMPLETE CATALOG DESCRIPTION including dept., number, title, credits, credit distribution, cross-listings and/or stacking (50 words or less if possible):

Example of a complete description:

FISH F487 W, O Fisheries Management
3 Credits Offered Spring

Theory and practice of fisheries management, with an emphasis on strategies utilized for the management of freshwater and marine fisheries. Prerequisites: COMM F131X or COMM F141X; ENGL F111X; ENGL F211X or ENGL F213X; ENGL F414; FISH F425; or permission of instructor. Cross-listed with NRM F487. (3+0)

NRM 294 Introduction to Animal Science
3 Credits Offered Spring

The role of animal agriculture in the U.S. and the modern world. Principles of sustainability as those principles apply to animal agriculture. Introduction of basic concepts and principles of animal nutrition, growth, health, behavior, physiology, reproduction, and genetics, as well as practical applications of animal science technology such as disease prevention, artificial insemination and other reproductive management techniques, genetic selection, and concepts of animal well-being. Concepts and principles will be related to current issues such as population growth, resource use and availability, and changing social preferences related to animal agriculture. Prerequisites: NRM 210 (3 + 0)

11. COURSE CLASSIFICATIONS: Undergraduate courses only. Consult with CLA Curriculum Council to apply S or H classification appropriately; otherwise leave fields blank.
H = Humanities S = Social Sciences

Will this course be used to fulfill a requirement for the baccalaureate core? If YES, attach form.

YES:

NO:

x

IF YES, check which core requirements it could be used to fulfill:

O = Oral Intensive,
Format 6W = Writing Intensive,
Format 7X = Baccalaureate
Core

11.A Is course content related to northern, arctic or circumpolar studies? If yes, a "snowflake" symbol will be added in the printed Catalog, and flagged in Banner.

YES x

NO

12. COURSE REPEATABILITY:

Is this course repeatable for credit?

YES

NO

x

Justification: Indicate why the course can be repeated (for example, the course follows a different theme each time).

How many times may the course be repeated for credit?

TIMES

If the course can be repeated for credit, what is the maximum number of credit hours that may be earned for this course?

CREDITS

If the course can be repeated with variable credit, what is the maximum number of credit hours that may be earned for this course?

CREDITS

13. **GRADING SYSTEM:** Specify only one. Note: Changing the grading system for a course later on constitutes a Major Course Change - Format 2 form.

LETTER: ☒

PASS/FAIL: ☐

RESTRICTIONS ON ENROLLMENT (if any)

14. **PREREQUISITES**

NRM 210

These will be required before the student is allowed to enroll in the course.

15. **SPECIAL RESTRICTIONS, CONDITIONS**

16. **PROPOSED COURSE FEES**

\$

Has a memo been submitted through your dean to the Provost for fee approval?

Yes/No

17. **PREVIOUS HISTORY**

Has the course been offered as special topics or trial course previously?

No

Yes/No

If yes, give semester, year, course #, etc.:

18. **ESTIMATED IMPACT**

WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.

None

19. **LIBRARY COLLECTIONS**

Have you contacted the library collection development officer (kljensen@alaska.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and services available for the proposed course? If so, give date of contact and resolution. If not, explain why not.

No

☒

Yes

20. **IMPACTS ON PROGRAMS/DEPTS**

What programs/departments will be affected by this proposed action? Include information on the Programs/Departments contacted (e.g., email, memo)

NRM degree program

Pre-Veterinary Medicine students

21. **POSITIVE AND NEGATIVE IMPACTS**

Please specify **positive** and **negative** impacts on other courses, programs and departments resulting from the proposed action.

Positive impact on agriculture aspect of NRM degree and on pre-veterinary medicine program

JUSTIFICATION FOR ACTION REQUESTED

The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. Use as much space as needed to fully justify the proposed course.

This will be the only animal science course offered in the UA system. The course will give students an opportunity to explore concepts of animal science and will be the only opportunity pre veterinary medicine students at UAF have to take an animal science course.

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APPROVALS: Add additional signature lines as needed.

<i>Milam Shipton</i>	Date	<i>6/3/14</i>
Signature, Chair, Program/Department of:	<i>Agriculture & Horticulture</i>	

<i>Peter</i>	Date	<i>6/3/14</i>
Signature, Chair, College/School Curriculum Council for:	<i>SNRE</i>	

<i>SHD SW</i>	Date	<i>04 June 2014</i>
Signature, Dean, College/School of:	<i>SNRAS</i>	

Offerings above the level of approved programs must be approved in advance by the Provost.

	Date	
Signature of Provost (if above level of approved programs)		

ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE

	Date	
Signature, Chair Faculty Senate Review Committee: <input type="checkbox"/> Curriculum Review <input type="checkbox"/> GAAC <input type="checkbox"/> Core Review <input type="checkbox"/> SADAC		

ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)

	Date	
Signature, Chair, Program/Department of:		

	Date	
Signature, Chair, College/School Curriculum Council for:		

	Date	
Signature, Dean, College/School of:		

ATTACH COMPLETE SYLLABUS (as part of this application). This list is online at: <http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/uaf-syllabus-requirements/>
The Faculty Senate curriculum committees will review the syllabus to ensure that each of the items listed below are included. If items are missing or unclear, the proposed course (or changes to it) may be denied.

SYLLABUS CHECKLIST FOR ALL UAF COURSES

During the first week of class, instructors will distribute a course syllabus. Although modifications may be made throughout the semester, this document will contain the following information (as applicable to the discipline):

1. Course information:

☐ Title, ☐ number, ☐ credits, ☐ prerequisites, ☐ location, ☐ meeting time
(make sure that contact hours are in line with credits).

2. Instructor (and if applicable, Teaching Assistant) information:

☐ Name, ☐ office location, ☐ office hours, ☐ telephone, ☐ email address.

3. Course readings/materials:

☐ Course textbook title, ☐ author, ☐ edition/publisher.
☐ Supplementary readings (indicate whether ☐ required or ☐ recommended) and
☐ any supplies required.

4. Course description:

☐ Content of the course and how it fits into the broader curriculum;
☐ Expected proficiencies required to undertake the course, if applicable.
☐ Inclusion of catalog description is *strongly* recommended, and
☐ Description in syllabus must be consistent with catalog course description.

5. ☐ Course Goals (general), and (see #6)

6. ☐ Student Learning Outcomes (more specific)

7. Instructional methods:

☐ Describe the teaching techniques (eg: lecture, case study, small group discussion, private instruction, studio instruction, values clarification, games, journal writing, use of Blackboard, audio/video conferencing, etc.).

8. Course calendar:

☐ A schedule of class topics and assignments must be included. Be specific so that it is clear that the instructor has thought this through and will not be making it up on the fly (e.g. it is not adequate to say "lab". Instead, give each lab a title that describes its content). You may call the outline Tentative or Work in Progress to allow for modifications during the semester.

9. Course policies:

☐ Specify course rules, including your policies on attendance, tardiness, class participation, make-up exams, and plagiarism/academic integrity.

10. Evaluation:

☐ Specify how students will be evaluated, ☐ what factors will be included, ☐ their relative value, and ☐ how they will be tabulated into grades (on a curve, absolute scores, etc.) ☐ Publicize UAF regulations with regard to the grades of "C" and below as applicable to this course. (Not required in the syllabus, but is a convenient way to publicize this.) Link to PDF summary of grading policy for "C":

http://www.uaf.edu/files/uafgov/Info-to-Publicize-C_Grading-Policy-UPDATED-May-2013.pdf

11. Support Services:

☐ Describe the student support services such as tutoring (local and/or regional) appropriate for the course.

12. Disabilities Services: Note that the phone# and location have been **updated**.

<http://www.uaf.edu/disability/> The Office of Disability Services implements the Americans with Disabilities Act (ADA), and ensures that UAF students have equal access to the campus and course materials.

☐ State that you will work with the Office of Disabilities Services (208 WHITAKER BLDG, 474-5655) to provide reasonable accommodation to students with disabilities.

Introduction to Animal Science

NRM 294 3 credits

**University of Alaska
Fairbanks and Palmer and Campuses
Spring Semester 2015**

Instructor: Dr. Milan P. Shipka

Phone and voice mail: Fairbanks 907 - 474 - 7429

E-mail: mpshipka@alaska.edu

Office hours: By appointment or when my door is open; I am also available for consultation immediately following class periods.

Class Hours:

Tues and Thurs 9:00 -10:30

Class Locations: Fairbanks – AHRB 183
Palmer - AFES Classroom

Course Objectives: The student will develop a basic understanding of the role of animal agriculture (U.S. and global) and will be exposed to principles of sustainability applied to animal agriculture. The course will introduce basic concepts and principles of animal nutrition, growth, health, behavior, physiology, reproduction, and genetics, as well as practical applications of animal science technology such as disease prevention, artificial insemination and other reproductive management techniques, genetic selection, and concepts of animal well-being. Throughout the semester these concepts and principles will be related to current issues such as population growth, resource use and availability, and changing social preferences related to animal agriculture.

Student Learning Outcomes: By the end of the semester students will demonstrate a basic understanding of the concepts and principles of animal science and sustainable management concepts in animal agriculture. Student Learning Outcomes include:

- 1) Ability to critically apply knowledge and integrate concepts about the science of keeping domestic and non-domestic animals for production of food and fiber in applications including sustainable agriculture (with consideration of economic, social and environmental sustainability of agricultural practices) and the importance of companion animals in modern culture.
- 2) Development a basic understanding of the role of livestock in global and U.S. animal agriculture and be able to appreciate the science behind animal care and husbandry as it concerns the role of animals in society.

Text:

Animal Sciences: The Biology, Care, and Production of Domestic Animals. 2010. John R. Campbell, M. Douglas Kenealy, Karen L. Campbell. 4th Edition. McGraw Hill publishers, New York.

ISBN-13: 978-1577666561

Best way to do well in this class:

- 1) Attend the lectures,
- 2) Take good notes,
- 3) Read the assigned readings before class,
- 4) Download the PPT before or right after class,
- 5) Go back through your notes and the PPT soon after class, and
- 6) Complete 14 weekly out-of-class assignments

Course Grading:

Exam I	100 points
Exam II	100
Exam III	100
Final exam	100
Weekly assignments (14)	140

Total **540 points**

Final course grades will be assigned on the following basis:

$\geq 97\%$	= A+
92 - 96.9%	= A
90 - 91.9%	= A-
87 - 89.9%	= B+
82 - 86.9%	= B
80 - 81.9%	= B-
77 - 79.9%	= C+
72 - 76.9%	= C
70 - 71.1%	= C-
Etc.	

Really important information:

- 1) Absences on a test day must be prearranged in order to take the exam on a different date.
- 2) The instructor reserves the right to request a Doctor's notice of illness for someone who claims illness of self or a relative as an excuse for missing an exam and requesting a make-up exam.
- 3) The instructor reserves the right to request a copy of an obituary if an individual claims death of another individual as an excuse for missing an exam and requesting a make-up exam.

For important UAF grading policy information please see the 2013-14 UAF Catalog, pages 47-49, or go to <http://www.uaf.edu/catalog/current/academics/regs1.html>

Disabilities Services: The Office of Disability Services implements the Americans with Disabilities Act (ADA) and ensures that UAF students have equal access to the campus and course materials. I will work with the Office of Disabilities Services (208 WHIT, phone: 474-5655) to provide reasonable accommodation to students with disabilities.

	Course Outline	Readings	Weekly Assignment	Assignment due date
Week 1	Animals Science: What is it? Animal Domestication The big five The other nine Still others now?	Chapter 1 Pages 1 - 19	Animal Agriculture Issues	Jan. 26
Week 2	Animal Anatomy Animal Growth and Development	Chapter 10 Pages 179-195 Chapter 12 Pages 203 - 218	Speaking about animals: Terminology associated with livestock and companion animals	Feb. 2
Week 3	Animal Nutrition Physiology of Digestion Avian Monogastric Ruminant Hindgut fermenter Nutrient Utilization	Chapter 18 & 19 Pages 313 – 336	Animal Nutrition	Feb. 9
Week 4	Complete Nutrition Review for Exam Exam I		Animal Reproduction and Lactation	Feb. 16
Week 5	Endocrinology	Chapter 11 Pages 196 – 202	Bovine - Cattle, Bison, & Yak	Feb 23
Week 6	Physiology of Reproduction	Chapter 13 Pages 219 – 240	Equine - Horses, Donkeys, & Mules	Mar. 2
Week 7	Physiology of Egg Laying	Chapters 16 Pages 282 - 294	Porcine – Pig	Mar. 9
Week 8	Complete Reproduction Review for Exam Exam II		Small ruminant - Ovine – Sheep Caprine – Goat, Muskox New World Camelid – Llama, Alpaca, Guanaco, Vicunia	Mar. 23
Week 9	Animal Genetics Animal Breeding and Selection	Chapters 8 & 9 Pages 141 - 178	Cervine: Reindeer, Elk, Deer	Mar. 30
Week 10	Ecology and Environmental Physiology	Chapter 17 Pages 295 - 312	Companion Animals Dog, Cat	Apr. 6
Week 11	Environmental Physiology Review for Exam Exam III		Poultry and Egg Products	Apr. 13
Week 12	Physiology of Lactation	Chapter 15 Pages 259 - 281	Dairy and Milk Products	Apr. 20
Week 13	Animal Health	Chapters 22 & 23 Pages 370 - 415	Hair and Wool Products	Apr. 27
Week 14	Animal Behavior Animal Well Being	Chapter 24 Pages 416 – 430 Chapter 7 Pages 131 - 140	Meat Products	May 4
Week 15	Review for Final	FINAL EXAM TIME - TBD		