REQUEST FOR ADDITION OF NEW COURSE

Department: Animal Sciences  
College: Agriculture  
Date: 2/24/2016

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### PROPOSED COURSE DESCRIPTION

<table>
<thead>
<tr>
<th>Rubric &amp; No.</th>
<th>ANSC 2031</th>
<th>Title</th>
<th>Equine Industry and Management</th>
</tr>
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<table>
<thead>
<tr>
<th>Short Title (≤ 19 characters)</th>
<th>EQUIE MANAGEMENT</th>
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<table>
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<tr>
<th>Semester Hours of Credit</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

If combination course type, # hrs. of credit for  
Lecture: 1  
Lab/Sem/Rec: 1

Repeat Credit Max. (if repeatable):  
Yes  
No

Credit will not be given for this course and:

Course Type (Indicate hours in the appropriate course type.)

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Lab</th>
<th>Seminar</th>
<th>Recitation</th>
<th>Lec/Rec</th>
<th>Lec/Sem</th>
<th>Lec/Lab</th>
<th>Res/Ind</th>
<th>Clin/Pract</th>
<th>Intern</th>
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<tbody>
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</tbody>
</table>

Maximum enrollment per section: (use integer, e.g. 25 not 20-30)  
15

Grading System:  
Letter Grade: x  
Pass/Fail:     
Final Exam:**  
Yes: x  
No:     

**(Attach justification if the proposed course will not hold a final exam during examination week.)**

Course Description:

(Concise catalog statement exactly as you wish it to appear in the General Catalog)

Equine Management (2). Prereq.: ANSC 1011; consent of instructor. Management principles utilized to make appropriate decisions regarding horse feeding, breeding, selection, disease control and economic planning.

---

### BUDGET IMPACT (IF ANSWER TO ANY QUESTION IS "YES", ATTACH EXPLANATION.)

If this course is approved, will additional staff be needed?  
Yes: x  
No:     

Will additional space, equipment, special library materials or other major expense be involved?  
Yes: x  
No:     

Academic Affairs Approval:  
(Date)

---

### ATTACHMENTS (ATTACH THE FOLLOWING TO YOUR PROPOSAL)

JUSTIFICATION: Justification must explain why this course is needed and how it fits into the curricula. Will the course duplicate other courses?  
SYLLABUS: Including 14 week outline of the subject matter; titles of text, lab manual, and/or required readings; grading scale and criteria  
(For 4000-level, specify graduate student grading criteria if requirements differ for graduate and undergraduate students).

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### APPROvals

<table>
<thead>
<tr>
<th>Department Chair Approval Date</th>
<th>College Dean Approval Date</th>
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</thead>
<tbody>
<tr>
<td>2/24/2016</td>
<td>4/1/16</td>
</tr>
</tbody>
</table>

Department Chair Signature:  
(date)

Graduate Dean Signature:  
(date)

College Contact:  
jsherw@ilstu.edu  
E-mail:        

College Dean Signature:  
Chair, FS C&C Committee:  
(Date)  
4/1/16  

Academic Affairs Approval:  
(Date)  
8/1/16  

(Rev. 7/2015)
Justification for adding ANSC 2031 (Equine Industry & Management)

The School of Animal Sciences is deficient in freshman/sophomore level courses that teach basic care and handling of farm animals. Students are required to take ANSC 1011 (Introduction to Animal Science), but there is no 2000 level course currently available to provide applied, hands-on opportunities in equine management. The proposed course will provide an introduction to equine science and industry, teach equine management skills in a hands on setting, and address the needs of the growing number of animal science/pre vet students in preparation for professional school. The course will also better prepare students for the senior level horse production course (ANSC 4088).
Additional justification for the addition of ANSC 2031, 2050, 2051, and 2052

The addition of these four 2000 level courses will be of benefit to all students in the Animal Sciences curriculum, particularly those in the Science and Technology and pre-veterinary medicine concentrations, a combined total of over 250 students.

In both of the abovementioned concentrations, students are required to take 15 hours of ANSC electives at the 2000 level or above. The addition of new courses at the 2000 level will offer greater flexibility in students satisfying degree requirements in a timely manner, as well as provide content that is currently lacking in the program. The addition of hands on coursework at the sophomore level will better prepare students for junior and senior level courses and labs. Students in all other concentrations may opt to take these courses as part of their free and approved electives as well. There are currently 20 students in the Animal, Dairy, and Poultry Sciences minor who may opt to take these courses to fulfill the minor requirement of 9 hours at the 3000 level or below.

Because the courses will not be required for majors, but rather available as electives, there is not a risk of students delaying graduation due to space issues.

ANSC 2050 can be taken as either a pre-requisite or co-requisite with ANSC 2051 and ANSC 2052.
ANSC 2031
Equine Industry & Management
Fall, 2016

Instructor: Dr. Neely Walker
nwalker@agcenter.lsu.edu
225-200-6321

Prerequisites: ANSC 1011 and Approval of instructor

Meeting Time and Place: Monday 1:30-4:30 pm; locations will vary based on topic


Catalog Statement: Equine Management (2). Prereq.: ANSC 1011 and consent of instructor. Management principles utilized to make appropriate decisions regarding horse feeding, breeding, selection, disease control and economic planning.

Objectives:
1. Understand the scientific principles needed to make sound management decisions for horse feeding, breeding, selection, disease control and economic planning.
2. Recognize health parameters as abnormal vs normal
3. Develop an understanding of the primary health care of the horse
4. Develop the ability to plan and execute herd health management
5. Meet and interview professionals in the horse industry to gain realistic economic data and perspectives of evolving technologies are applied.
6. Apply classroom knowledge in effective student teams to solve problems and develop plans to address assigned issues.
7. Practice critical thinking and logical analysis of real industry case problems with presentation of solutions to the class.

Grading:

500 points possible
100 pts Midterm Exam-material will be taken from lecture and lab.
100 pts Final Exam-material will be taken from lecture and lab.
200 pts Assignments
   1. Disaster Preparedness Plan- develop strategies to mitigate the effects a natural disaster might have on your horse operation. 100 points possible. Rubric will be given when assigned.
   2. Industry Issue Group Project- a current equine industry issue will be assigned to each group. Groups will be expected to think critically and provide a solution to that issue based on fact and present it to the class. 100 points possible. Rubric will be given when assigned.
100 pts Attendance quizzes- short quizzes will be given at the beginning of each class to document attendance.
A+ = 97-100%  B = 84-86%  C- = 70-73%  F = <59%
A  = 94-96%  B- = 80-83%  D+ = 67-69%
A- = 90-93%  C+ = 77-79%  D = 64-67%
B+ = 87-89%  C = 74-76%  D- = 60-63%

CLASS POLICIES

Academic Integrity
All LSU students are responsible for observing the highest standards of academic and personal integrity. The penalties for academic dishonesty are severe and ignorance is not an acceptable excuse. All cases of alleged academic misconduct will be referred to the Office of the Dean of Students. The Code of Student Conduct and information on avoiding plagiarism can be found on the Student Advocacy & Accountability website at http://students.lsu.edu/saa/students/code

Student Responsibilities
Students are all expected to be courteous during class, not doing things which are distracting to the guest presenters, instructors or other members of the class (including noisy late arrivals or early departures). All CELL PHONES should be OFF or on SILENT. Material presented in class will appear on quizzes, homework assignments, and exams. Students are responsible for all material and assignments presented in class (see a reliable classmate for class notes and announcements if you have missed class). Students are expected to be dressed appropriately in class, on the farm, and when traveling throughout the industry (this requires a minimum of long pants, boots and an appropriate shirt).

Moodle: Students are required to check for class announcements and course materials via the Moodle application on MyLSU.

Disability Statement
Any student who, because of a disabling condition, requires some special arrangements in order to meet course requirements must obtain a letter outlining the necessary accommodations needed from The Office of Disability Services, 112 Johnston Hall. All information regarding disabilities (registering with the ODS, obtaining accommodation letters, offered resources for students with disability, etc.) is available on The Office of Disability Services website www.lsu.edu/disability

Amendments to Syllabus
The instructors reserve the right to make changes and adjustments to the course syllabus at any time throughout the semester. In which case, the instructor will provide written notice of the changes (via Moodle) and review the changes during regularly scheduled class meetings.

Attendance: Please refer to PS-22, available on LSU’s web site for general policies on student absences. Students are responsible for making up any work missed. In the event of an excused absence, students are required to coordinate make-up with the instructor.
**Expectations:**
LSU’s general policy states that for each credit hour, you (the student) should plan to spend at least two hours working on course related activities outside of class. Since this course is for two credit hours, you should expect to spend a minimum of four hours outside of class each week working on assignments for this course. For more information see: [http://catalog.lsu.edu/content.php?catoid=12&navoid=822](http://catalog.lsu.edu/content.php?catoid=12&navoid=822)

**COURSE OUTLINE**

<table>
<thead>
<tr>
<th>Date</th>
<th>Class Topic</th>
<th>Lab Topic</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/22</td>
<td>Intro/Euthanasia</td>
<td>The Normal Horse</td>
<td>HIH 470, 425, 775, &amp; 780</td>
</tr>
<tr>
<td>8/29</td>
<td>Behavior</td>
<td>Behavior</td>
<td>HIH 425 &amp; 1220</td>
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<tr>
<td>9/5</td>
<td>Holiday</td>
<td>-</td>
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<tr>
<td>9/12</td>
<td>Infectious Disease</td>
<td>Vaccinations</td>
<td>HIH 445, 605-630, 645-665, 680, 685</td>
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<td>9/19</td>
<td>Infectious Disease</td>
<td>First Aid</td>
<td>HIH 440, 465 &amp; 1160</td>
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<tr>
<td>9/26</td>
<td>Ailments</td>
<td>Colic</td>
<td>HIH 435a, 460, 640, 670, 675, &amp; 795</td>
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<tr>
<td>10/3</td>
<td>Ailments</td>
<td>Restraint</td>
<td>Handout</td>
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<tr>
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<tr>
<td>10/17</td>
<td>Internal Parasites</td>
<td>Parasite Evaluation</td>
<td>HIH 430 &amp; Handout</td>
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<tr>
<td>10/24</td>
<td>External Parasites</td>
<td>Parasite Control</td>
<td>HIH 415 &amp; Handout</td>
</tr>
<tr>
<td>10/31</td>
<td>Pasture/Facilities Management</td>
<td>Pasture Walk- weed control, poisonous plant ID, pasture management, appropriate fencing options, equine barn management techniques</td>
<td>Handout</td>
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<tr>
<td>11/7</td>
<td>Biosecurity</td>
<td>Disaster Plan Development</td>
<td>HIH 475 &amp; Handout</td>
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<td>11/14</td>
<td>Lameness</td>
<td>Evaluating Lameness</td>
<td>HIH 230, 455, &amp; Ch. 5</td>
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<td>11/21</td>
<td>Unwanted Horses</td>
<td>Group Project</td>
<td>Handout</td>
</tr>
<tr>
<td>11/28</td>
<td>Equine Industry</td>
<td>Tour</td>
<td>-</td>
</tr>
</tbody>
</table>

*Note: Attendance to off campus locations is required for this class. We will be visiting local farms, research stations, veterinary hospitals and industry partners. Transportation will be provided on travel days.*
REQUEST FOR ADDITION OF NEW COURSE

PROPOSED COURSE DESCRIPTION

Rubric & No.  ANSC 2050  Title  Animal Management Practices

Short Title (≤ 19 characters)  A N I M A L  P R A C T I C E S

Semester Hours of Credit  2

If combination course type, # hrs. of credit for

Lecture:   Lab/Sem/Rec: 

Repeat Credit Max. (if repeatable):  _____ credit hours  Graduate Credit?  Yes  No

Credit will not be given for this course and:

Course Type (Indicate hours in the appropriate course type.)

Lecture 2  Lab  Seminar  Recitation  Lec/Rec  Lec/Sem  Lec/Lab  Res/Ind  Clin/Pract  Intern

Maximum enrollment per section: (use integer, e.g. 25 not 20-30)  40

Grading System:  Letter Grade X  Pass/Fail  Final Exam:**  Yes X  No

** (Attach justification if the proposed course will not hold a final exam during examination week.)

Course Description:
(Concisely state exactly as you wish it to appear in the General Catalog)

Techniques of routine and special conditions of animal handling, care, movement, restraint, and their
interactions with different facilities and production systems. Practices in large and small ruminants,
equine, swine, and poultry.

BUDGET IMPACT (IF ANSWER TO ANY QUESTION IS "YES", ATTACH EXPLANATION).

If this course is approved, will additional staff be needed?  Yes  No

Will additional space, equipment, special library materials or other major expense be involved?  Yes  No

Academic Affairs Approval:  (Date)

ATTACHMENTS (ATTACH THE FOLLOWING TO YOUR PROPOSAL)

JUSTIFICATION: Justification must explain why this course is needed and how it fits into the curricula. Will the course duplicate other courses?
SYLLABUS: Including 14 week outline of the subject matter; titles of text, lab manual, and/or required readings; grading scale and criteria
(For 4000-level, specify graduate student grading criteria if requirements differ for graduate and undergraduate students).

APPROVALS

Department Faculty Approval Date  02/24/2016  College Faculty Approval Date  02/24/16

Department Chair Signature  2/24/16  College Dean Signature  (date)

Graduate Dean Signature  (date)  Chair, FS C&C Committee  (date)

College Contact  E-mail

Academic Affairs Approval  (date)
ANSC 2050 – ANIMAL MANAGEMENT PRACTICES
ANSC 2051 – LARGE FARM ANIMAL PRACTICUM LABORATORY
ANSC 2052 – SMALL FARM ANIMAL PRACTICUM LABORATORY

COURSE JUSTIFICATION

Most students currently enrolled in Animal Sciences have been raised in urban and suburban communities. They usually lack fundamental animal husbandry skills that are essential for the complete fulfillment of their education and of their careers after graduation from Animal Sciences. Those abilities have been often assumed or only superficially addressed by instructors in advanced courses in the Animal Sciences curriculum. Three courses were designed to maximize experiential student training in large and small domestic animal management. Animal Management Practices (ANSC 2050) was developed to provide cohesive student training in basic concepts of livestock and poultry behavior, we.fare, and management in preparation for hands-on experience in Large Farm Animal Practicum Laboratory (ANSC 2051) and in Small Farm Animal Practicum Laboratory (ANSC 2052). Animal Management Practices (ANSC 2050) was designed to be taught both semesters, spring and fall, given the large number of students expected to enroll. Those courses will create a valuable opportunity to expose students to experiential learning in livestock and poultry management practices that are scientifically proven and ethically accepted. Lectures will be organized to match and support ancillary Practicum Laboratory classes mentioned above (ANSC 2051 and ANSC 2052), and vice-versa. Practicum Laboratory courses will provide opportunity for students to interact with beef and dairy cattle, and horses (ANSC 2051) and with small ruminants, swine and poultry (ANSC 2052). Students will be trained to evaluate animal behavior, approach, move and handle animals, to perform routine practices and health interventions, and use and design of adequate facilities for properly handling farm animals. A large number of management practices specific for the various domestic animal species included in the course and the intention to expand opportunities for all students enrolled to have meaningful experiential training are important reasons for separating Large and Small Farm Animal Laboratories. Large Farm Animal Practicum Laboratory will be taught in Fall semesters and Small Farm Animal Practicum Laboratory will be available in Spring semesters.
The School of Animal Sciences has the largest undergraduate enrollment in the College of Agriculture. Having approximately 400 students necessitates increasing the number of courses offered by the department. Recently we changed our degree title from Animal, Dairy, and Poultry Sciences to Animal Sciences and this change facilitated the need to evaluate the curriculum. During this process the faculty determined there was a need to have a course with two laboratories at the 2000 level. These three new classes give our students the opportunity to learn about and have hands on experiences with dairy cattle, beef cattle, swine, poultry, sheep, goats and horses. These three classes will replace a hands on dairy management course which can no longer be offered since there are no dairy facilities on campus.

The faculty also recognized the need to have a course on equine management practices. This course gives the students the ability to learn about the equine industry along with some hands on opportunities. This course replaces a class on basic horsemanship that was taught off site at a private stable. The focus of the course was riding, and was not meeting the needs of our science-based curriculum.

Due to the small number of 2000 level courses associated with hands on experience being taught in the department, along with the large number of students in the curriculum, we are expecting these classes will fill to capacity. Due to increased urbanization, the typical animal science student comes to LSU with minimal large animal experience. Therefore, the creation of these courses will meet the needs of the department's student body by providing them with animal contact, as well as preparation for senior level animal science courses.
ANIMAL SCIENCE 2050
ANIMAL MANAGEMENT PRACTICES
FALL 2016 – SPRING 2017

Instructor: Vinicius Moreira
Associate Professor, Nutrition and Nutrient Management
School of Animal Sciences
Louisiana State University
110 Dalrymple Memorial
Baton Rouge, LA 70894
Phone: (225) 578-0880
Email: vmoreira@agcenter.lsu.edu
Office hours: Monday through Friday from 10 am to 12 pm.

Animal Unit Managers:

Central Research Station
Beef Unit
Tony Bridges
Horse and Small Ruminant Units
Franklin “Randy” Wright
Poultry Unit
Gerardo Romero
Swine Unit & Meat Lab
Manuel “Boo” Persica

Course Description: ANSC 2050 Animal Management Practices (2 credit-hour lecture).
Prereq: ANSC 1011

Students will learn techniques that deal with routine as well as special conditions of animal handling, care, movement, restraint and their interactions with different facilities and production systems. Practices in large (dairy and beef) and small (sheep and goat) ruminants, equine, swine and poultry will be the main subjects of this course.

Course Objectives:

Students will:
1) Become familiar with proper terminology used in livestock and poultry husbandry.

2) Learn basic techniques for safely handling and managing livestock and poultry.

3) Develop critical thinking to evaluate and adapt the skills learned to fit unique practical circumstances with the objective to minimize stress and injuries of animals and humans.

Class schedule:
Tuesdays and Thursdays, 9:00 – 9:50 am
Suggested reading:
This course does not require textbook, but students are strongly encouraged to expand classroom lectures with extra reading materials. Individual handouts and reference materials will be provided when appropriate.

Books:

Websites:
Livestock: LSU AgCenter website:
   http://www.lsuagcenter.com/topics/livestock: Local portal links to extension publications on management practices in livestock and poultry.
Livestock: National Center for Appropriate Technology (NCAT) Appropriate Technology Transfer for Rural Areas (ATTRA):
Dairy: Dr. Michel Wattiaux (University of Wisconsin, Madison) website:
   https://kb.wisc.edu/dairynutrient/: Find Technical Dairy Guides in various languages on the top right hand side.
Beef: University of Florida Beef Cattle Management Extension website:
   https://edis.ifas.ufl.edu/topic_beef_cattle_management
Beef: Dr. Temple Grandin (Colorado State University) website:
   http://www.grandin.com: Links to a wealth of information on cattle behavior and management practices and facility designs.

Students are expected to spend two hours outside of class for each scheduled 50 minute class period on activities assigned by the instructor. These include reading course materials before class, preparing for exams, completing class assignments, volunteer animal handling activities, or any other activities related to learning and demonstrating the information in the course.
Grading:

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<th>Participation</th>
<th>200 points</th>
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<tr>
<td>Exams</td>
<td>100 points</td>
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<tr>
<td>Hour Exam 1</td>
<td>100 points</td>
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<td>Hour Exam 2</td>
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<td>Final Exam</td>
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<tr>
<td>Total</td>
<td>500 points</td>
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Grading Policies:

1. Participation:
   a. Presence (150 points): success in this course will be influenced by attendance. All exams will cover material specifically discussed in lecture or in assigned readings. Absent (excused or not) students will not be able to make up experiences planned for that date, because of the programmatic nature of this course. As indicated above, each unexcused absence will result in 14 points deduction in Participation points.
   b. Volunteer animal handling activities (50 points): Up to 100 points may be awarded for significant volunteer animal handling in activities such as Block & Bridle and Quadrathlon, livestock shows, animal unit (beef, poultry, swine, equine) volunteering, among others.

2. Exams (200 points): All exams will cover material specifically discussed in lectures or in assigned readings.

3. Final Exam (100 points): Final exam will encompass all material covered during the semester.

Letter grades will be awarded based on the following:

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<tr>
<th>Percent</th>
<th>Grade</th>
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<tr>
<td>94 to 97</td>
<td>A</td>
</tr>
<tr>
<td>90 to 93</td>
<td>A−</td>
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<td>D−</td>
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<tr>
<td>≤ 59</td>
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</table>
Course Policies

Attendance:
An excuse must be submitted in advance for scheduled absences or within a reasonable timeframe in case of unforeseen circumstances.

Exams:
Students may be excused from an exam for a legitimate reason (i.e. illness, family crisis, school function). You will need to verify your excuse with a note from your doctor or faculty advisor. We would also appreciate a phone call or email from you before the exam. The missed exam must be rescheduled promptly. An unexcused absence from the exam without prior notification will result in a grade of zero.

Code of Student Conduct:
It is the responsibility of all students to familiarize themselves with the Code of Student Conduct and other University rules and regulations governing student conduct and activities.

Academic Dishonesty:
Suspected academic dishonesty will be reported to the Dean of Students and Office of Student Academic Affairs. For more information, refer to your handbook of responsibility in student university relationship or refer to the Code of Conduct that can be found in the Office of the Dean of Students website within the LSU home page. http://saa.lsu.edu/code

Disabilities Statement:
If you have special needs addressed by the Americans with Disabilities Act, please notify your instructors immediately for proper accommodations. LSU Disabilities Services: http://appl003.lsu.edu/slas/ods.nsf/$Content/ODS+Main+Office?OpenDocument

Syllabus Change Policy:
This syllabus is a guide for the course and is subject to change with advanced notice.

Class Outline:

General Management Techniques
Week 1, 2:
- Course introduction
  - Principles of Animal Behavior and Welfare
  - Behavior associated with resting and locomotion, nutrition, reproduction and social interactions, animal rights versus animal welfare.

Week 3:
  - Animal Movement and Restraint Techniques
- Proper attitudes around domestic animals, safely approaching, catching, haltering and leading domestic animals, proper use working chutes and headgates, foot-trimming chute, tilt-table.

Week 4:
General Animal Health Techniques
- Injections, clipping, shearing, parasite control, withdrawal times.

Specific Management Techniques:
Week 5
Beef Cattle
- Typical breeds, terminology, cow-calf management, identification, temperament differences among breeds, dehorning, castration, weighing, showmanship.

Week 6, 7
EXAM 1
Dairy Cattle
- Typical breeds, terminology, calf management, identification, heifer management, heat identification, milking procedures.

Week 8
Equines
- Typical breeds, terminology, handling, clipping, measuring height, aging horses by their teeth, handling, laminitis.

Week 9
Poultry
- Typical breeds, terminology, basic calculations, welfare standards, egg collection and processing, broiler production handling from incubation to finishing/shipping.

Week 10
Swine
- Typical breeds, terminology, identification, movement, castration, ear notching, teeth clipping, tail docking, injection sites and routes, restraint techniques, weighing.

Week 11
EXAM 2
Small Ruminants
- Typical breeds, terminology, body conditioning, injection sites and routes, behavior, gate management, restraint techniques for trimming and shearing.
Week 12, 13
   Quality Assurance Training.

Week 14
   Management for shipping and processing.

Week 15
   FINAL EXAM
REQUEST FOR **ADD**ITION OF NEW COURSE

**PROPOSED COURSE DESCRIPTION**

<table>
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<tr>
<th>Rubric &amp; No.</th>
<th>ANSC 2051</th>
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<th>LARGE FARMA NI MLAB</th>
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<th>Semester Hours of Credit</th>
<th>1</th>
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<tr>
<th>If combination course type, # hrs. of credit for</th>
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<tbody>
<tr>
<td>Lecture: ___</td>
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<thead>
<tr>
<th>Repeat Credit Max. (if repeatable): credit hours Graduate Credit?</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

Credit will not be given for this course and:

<table>
<thead>
<tr>
<th>Course Type (Indicate hours in the appropriate course type.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture ____</td>
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</table>

Maximum enrollment per section: (use integer, e.g. 25 not 20-30) 22

Grading System: Letter Grade: X | Pass/Fail | Final Exam:** Yes | No |

***(Attach justification if the proposed course will not hold a final exam during examination week.)*

**Course Description:**

(Concise catalog statement exactly as you wish it to appear in the General Catalog)

ANSC 2051 Large Farm Animal Practicum Laboratory (1)

Prereq: ANSC 1011; credit or registration in ANSC 2050 and permission of on. Students will learn by practicing routine as well as special husbandry activities related to animal handling, care, movement, restraint and their interactions with different facilities and production systems. Practices in large (dairy and beef) ruminants and equine will be the main subjects of this course.

**BUDGET IMPACT (IF ANSWER TO ANY QUESTION IS "YES", ATTACH EXPLANATION.)**

If this course is approved, will additional staff be needed? Yes | No X

Will additional space, equipment, special library materials or other major expense be involved? Yes | No X

Academic Affairs Approval: (Date)

**ATTACHMENTS (ATTACH THE FOLLOWING TO YOUR PROPOSAL)**

JUSTIFICATION: Justification must explain why this course is needed and how it fits into the curricula. Will the course duplicate other courses?

SYLLABUS: Including 14 week outline of the subject matter; titles of text, lab manual, and/or required readings; grading scale and criteria

(For 4000-level, specify graduate student grading criteria if requirements differ for graduate and undergraduate students.)

**APPROVALS**

<table>
<thead>
<tr>
<th>Department Faculty Approval Date</th>
<th>02/24/2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Faculty Approval Date</td>
<td>2/24/16</td>
</tr>
</tbody>
</table>

Department Chair Signature: (date)

Graduate Dean Signature: (date)

College Contact: Jennifer Neal jshew tellasu.edu

William B. Richardson, 2/24/16

John B. Hoppe, Chair, FS C&B Committee, 4/10/16

Academic Affairs Approval: (date)
Additional justification for the addition of ANSC 2031, 2050, 2051, and 2052

The addition of these four 2000 level courses will be of benefit to all students in the Animal Sciences curriculum, particularly those in the Science and Technology and pre-veterinary medicine concentrations, a combined total of over 250 students.

In both of the abovementioned concentrations, students are required to take 15 hours of ANSC electives at the 2000 level or above. The addition of new courses at the 2000 level will offer greater flexibility in students satisfying degree requirements in a timely manner, as well as provide content that is currently lacking in the program. The addition of hands on coursework at the sophomore level will better prepare students for junior and senior level courses and labs. Students in all other concentrations may opt to take these courses as part of their free and approved electives as well. There are currently 20 students in the Animal, Dairy, and Poultry Sciences minor who may opt to take these courses to fulfill the minor requirement of 9 hours at the 3000 level or below.

Because the courses will not be required for majors, but rather available as electives, there is not a risk of students delaying graduation to due space issues.

ANSC 2050 can be taken as either a pre-requisite or co-requisite with ANSC 2051 and ANSC 2052.
ANSC 2050 – ANIMAL MANAGEMENT PRACTICES
ANSC 2051 – LARGE FARM ANIMAL PRACTICUM LABORATORY
ANSC 2052 – SMALL FARM ANIMAL PRACTICUM LABORATORY

COURSE JUSTIFICATION

Most students currently enrolled in Animal Sciences have been raised in urban and suburban communities. They usually lack fundamental animal husbandry skills that are essential for the complete fulfillment of their education and of their careers after graduation from Animal Sciences. Those abilities have been often assumed or only superficially addressed by instructors in advanced courses in the Animal Sciences curriculum. Three courses were designed to maximize experiential student training in large and small domestic animal management. Animal Management Practices (ANSC 2050) was developed to provide cohesive student training in basic concepts of livestock and poultry behavior, welfare, and management in preparation for hands-on experience in Large Farm Animal Practicum Laboratory (ANSC 2051) and in Small Farm Animal Practicum Laboratory (ANSC 2052). Animal Management Practices (ANSC 2050) was designed to be taught both semesters, spring and fall, given the large number of students expected to enroll. Those courses will create a valuable opportunity to expose students to experiential learning in livestock and poultry management practices that are scientifically proven and ethically accepted. Lectures will be organized to match and support ancillary Practicum Laboratory classes mentioned above (ANSC 2051 and ANSC 2052), and vice-versa. Practicum Laboratory courses will provide opportunity for students to interact with beef and dairy cattle, and horses (ANSC 2051) and with small ruminants, swine and poultry (ANSC 2052). Students will be trained to evaluate animal behavior, approach, move and handle animals, to perform routine practices and health interventions, and use and design of adequate facilities for properly handling farm animals. A large number of management practices specific for the various domestic animal species included in the course and the intention to expand opportunities for all students enrolled to have meaningful experiential training are important reasons for separating Large and Small Farm Animal Laboratories. Large Farm Animal Practicum Laboratory will be taught in Fall semesters and Small Farm Animal Practicum Laboratory will be available in Spring semesters.
The School of Animal Sciences has the largest undergraduate enrollment in the College of Agriculture. Having approximately 400 students necessitates increasing the number of courses offered by the department. Recently we changed our degree title from Animal, Dairy, and Poultry Sciences to Animal Sciences and this change facilitated the need to evaluate the curriculum. During this process the faculty determined there was a need to have a course with two laboratories at the 2000 level. These three new classes give our students the opportunity to learn about and have hands-on experiences with dairy cattle, beef cattle, swine, poultry, sheep, goats and horses. These three classes will replace a hands-on dairy management course which can no longer be offered since there are no dairy facilities on campus.

The faculty also recognized the need to have a course on equine management practices. This course gives the students the ability to learn about the equine industry along with some hands-on opportunities. This course replaces a class on basic horsemanship that was taught off site at a private stable. The focus of the course was riding, and was not meeting the needs of our science-based curriculum.

Due to the small number of 2000 level courses associated with hands-on experience being taught in the department, along with the large number of students in the curriculum, we are expecting these classes will fill to capacity. Due to increased urbanization, the typical animal science student comes to LSU with minimal large animal experience. Therefore, the creation of these courses will meet the needs of the department's student body by providing them with animal contact, as well as preparation for senior level animal science courses.
ANIMAL SCIENCE 2051
LARGE ANIMAL PRACTICUM LABORATORY
FALL 2016

Instructor: Vinicius Moreira
Associate Professor, Nutrition and Nutrient Management
School of Animal Sciences
Louisiana State University
110 Dalrymple Memorial
Baton Rouge, LA 70894
Phone: (225) 578-0880
Email: vmoreira@agcenter.lsu.edu
Office hours: Monday through Friday from 10 am to 12 pm.

Animal Unit Managers:

Central Research Station

Beef Unit  Tony Bridges
Horse and Small Ruminant Units  Franklin "Randy" Wright
Poultry Unit  Gerardo Romero
Swine Unit and Meat Lab  Manuel "Boo" Persica

Course Description: ANSC 2051 Large Animal Practicum Laboratory (1 credit; 3 hour laboratory). Prereq: ANSC 1011; credit or registration in ANSC 2050 and School Permission. Students will learn by practicing routine as well as special husbandry activities related to animal handling, care, movement, restraint and their interactions with different facilities and production systems. Practices in large (dairy and beef) ruminants and equine will be the main subjects of this course.

Course Objectives:
Students will:
1) Experience basic training in large animals (cattle and equine) behavior and health.
2) Learn basic techniques for safely handling and managing large animals.
3) Develop critical thinking to evaluate and adapt the skills learned to fit unique practical circumstances with the objective to minimize stress and injuries of animals and humans.

Class schedule:
Wednesdays, 12:30 – 3:30 pm
Suggested reading:
This course does not require textbook, but students are strongly encouraged to expand classroom lectures with extra reading materials. Individual handouts and reference materials will be provided when appropriate.

Books:

Websites:
Livestock: LSU AgCenter website:
http://www.lsuagcenter.com/topics/livestock: Local portal links to extension publications on management practices in livestock and poultry.
Livestock: National Center for Appropriate Technology (NCAT) Appropriate Technology Transfer for Rural Areas (ATTRA):
Dairy: Dr. Michel Wattiaux (University of Wisconsin, Madison) website:
https://kb.wisc.edu/dairy nutrient/: Find Technical Dairy Guides in various languages on the top right hand side.
Beef: University of Florida Beef Cattle Management Extension website:
https://edis.ifas.ufl.edu/topic_beef_cattle_management
Beef: Dr. Temple Grandin (Colorado State University) website:
http://www.grancin.com: Links to a wealth of information on cattle behavior and management practices and facility designs.

Students are expected to spend equivalent hours outside of class for each scheduled class period on course-related activities. These include reading course materials before class, preparing for exams, completing class assignments, volunteer animal handling activities, or any other activities related to learning and demonstrating the information in the course.
Grading:

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Grading Policies:

1. Participation:
   a. Presence (200 points): success in this course will be influenced by attendance. Absent (excused or not) students will not be able to make up experiences planned for missed classes because of the programmatic nature of this course. As indicated above, each unexcused absence will result in 14 points deduction in Participation points.
   b. Volunteer animal handling activities (100 points): Up to 100 points may be awarded for significant volunteer animal handling in activities such as Block & Bridle and Quadrathlon, livestock shows, animal unit (beef, poultry, swine, equine) volunteering, among others. Communication of interest must be expressed during the first month of the course. Activity needs to be logged in and signed by supervisors.

2. Assignments: A minimum of 3 assignments will be required throughout the semester. Those assignments will require students to develop journals for three distinct activities:
   a. Class summary: student is expected to summarize and discuss activities developed during every laboratory class.
   b. Animal assignment: individual or group of students will be assigned an animal to be accompanied throughout the semester. Each student will be required to maintain a journal detailing management and welfare practices and performance benchmarks. Practices must be discussed and proposed changes included in the conclusion.
   c. Health/Management case study: each student, in consultation with the instructor and a unit manager will identify, describe and propose alternatives to solve a health or management problem.

3. Final exam: The exam will cover material specifically discussed in lectures or in assigned readings. It will include a combination of written, oral and demonstration assessments to be taken at the animal units.
Letter grades will be awarded based on the following.

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**Course Policies**

*Attendance:*
An excuse must be submitted in advance for scheduled absences or within a reasonable timeframe in case of unforeseen circumstances.

*Exams:*
Students may be excused from an exam for a legitimate reason (i.e. illness, family crisis, school function). You will need to verify your excuse with a note from your doctor or faculty advisor. We would also appreciate a phone call or email from you before the exam. The missed exam must be rescheduled promptly. An unexcused absence from the exam without prior notification will result in a zero on the exam grade.

*Code of Student Conduct:*
It is the responsibility of all students to familiarize themselves with the Code of Student Conduct and other University rules and regulations governing student conduct and activities.

*Academic Dishonesty:*
Suspected academic dishonesty will be reported to the Dean of Students and Office of Student Academic Affairs. For more information, refer to your handbook of responsibility in student university relationship or refer to the Code of Conduct that can be found in the Office of the Dean of Students website within the LSU home page. [http://saa.lsu.edu/code](http://saa.lsu.edu/code)
Disabilities Statement:
If you have special needs addressed by the Americans with Disabilities Act, please notify your
instructors immediately for proper accommodations. LSU Disabilities Services:

Syllabus Change Policy:
This syllabus is a guide for the course and is subject to change with advanced notice.

Laboratory Classes and Field Trips:
Laboratory classes will take place at LSU AgCenter Central Station Animal Units. Students will
be asked to meet on time at the facilities scheduled for each week/activity. Field trips are
anticipated in this course to include animal species maintained in any LSU AgCenter Units near
campus (Dairy is an example). The department will provide transportation for these events. An
effort will be made to keep the duration of field trips within class schedule.

SAFETY DISCLAIMER AND CLOTHING:
A characteristic of animal management is that it is always unpredictable, often times dirty and
sometimes hazardous because of animal nature, and their interaction with humans (particularly
inexperienced ones) and facilities (particularly poorly designed). Students attending this
laboratory class are expected to behave responsibly around animals AND are REQUIRED to
wear proper clothing, including long pants and closed toe footwear (preferably boots). Leather
gloves will be required for handling animals and equipment to minimize risk of accidents.
Louisiana weather can be often challenging: students must come to Animal Units prepared with
rain gear (for example: umbrella or rain coat, rubber boots or boot cover). Student signatures will
be required in a Risk Management waiver and a Biosecurity form agreement before the first
laboratory session. Under-aged students (18 and under) will be required to obtain parent/adult
guardian signatures. Failure to sign the documents will result in students being prevented from
attending classes and will be counted as absence.

Class Outline:
Week 1:
  Course introduction
  Safety disclaimers and form signatures

Week 2, 3 and 4:
  First round of visits to the Animal Units (Beef, Dairy, Equine, not necessarily in this order):
    - Students will become acquainted with facilities, general animal characteristics, basic
      animal behavior and simple management practices like animal flight and fight zones.
  Deadline to communicate interest in Volunteer animal handling activities
Week 5, 6 and 7:
Second round of visits to the Animal Units (Beef, Dairy, Equine, not necessarily in this order):
- Students will become acquainted with specific routine practices such as feeding, milking, approaching, catching, haltering and leading animals.

Week 8, 9, 10
Third visit to Animal Units (Beef, Dairy, Equine, not necessarily in this order)
- Students will become acquainted with more specific routine practices such as animal restraint, identification, castration.

Week 11, 12, 13
Fourth visit to Animal Units (Beef, Dairy, Equine, not necessarily in this order)
- Students will become acquainted with special situations in animal health management such as injections, parasite control, and withdrawal times.

Week 14
Management for shipping and processing.
Assignments must be turned in.

Week 15
FINAL EXAM
REQUEST FOR ADDITION OF NEW COURSE

Department: School of Animal Science
College: Agriculture
Date: 02/04/2016

PROPOSED COURSE DESCRIPTION

Rubric & No.: ANSC 2052
Title: Small Farm Animals Practicum Laboratory

Short Title (≤ 19 characters): S M A L L F A R M A N I M A L S P R A C T I C U M L A B O R A T O R Y

Semester Hours of Credit: 1
If combination course type, # hrs. of credit for:

Repeat Credit Max. (if repeatable): Lecture: _ credit hours, Lab/Sem/Rec: ___
Graduate Credit? Yes No

Credit will not be given for this course and:

Course Type (Indicate hours in the appropriate course type):
Lecture__Lab__Seminar__Recitation__Lec/Rec__Lec/Sem__Lec/Lab__Res/Ind__Clin/Pract__Intern__

Maximum enrollment per section: (use integer, e.g. 25 not 20-30) 22
Grading System: Letter Grade X Pass/Fail ___ Final Exam:** Yes X No ___

**(Attach justification if the proposed course will not hold a final exam during examination week)**

Course Description:
(Concise catalog statement exactly as you wish it to appear in the General Catalog)

ANSC 2052 Small Farm Animal Practicum Laboratory (1). Prereq: ANSC 1011; credit or registration in ANSC 2050 and permission of Department. Students will learn by practicing routine as well as special husbandry activities related to animal handling, care, movement, restraint and their interactions with different facilities and production systems. Practices in small ruminants (sheep and goats), swine and poultry will be the main subjects of this course.

BUDGET IMPACT (IF ANSWER TO ANY QUESTION IS "YES", ATTACH EXPLANATION).

If this course is approved, will additional staff be needed? Yes ___ No X
Will additional space, equipment, special library materials or other major expense be involved? Yes ___ No X

Academic Affairs Approval: (Date)

ATTACHMENTS (ATTACH THE FOLLOWING TO YOUR PROPOSAL)

JUSTIFICATION: Justification must explain why this course is needed and how it fits into the curricula. Will the course duplicate other courses?
SYLLABUS: Including 14 week outline of the subject matter; titles of text, lab manual, and/or required readings; grading scale and criteria (For 4000-level, specify graduate student grading criteria if requirements differ for graduate and undergraduate students).

APPROVALS

Department Faculty Approval Date: 02/24/2016
College Faculty Approval Date: 02/26/110

Department Chair Signature: John B. Hopkins (date)

College Dean Signature: (date)
Chair, FS C&C Committee: (date)

Academic Affairs Approval: (date)

College Contact: Jennifer Neal E-mail: jshowers@ncsu.edu
Most students currently enrolled in Animal Sciences have been raised in urban and suburban communities. They usually lack fundamental animal husbandry skills that are essential for the complete fulfillment of their education and of their careers after graduation from Animal Sciences. Those abilities have been often assumed or only superficially addressed by instructors in advanced courses in the Animal Sciences curriculum. Three courses were designed to maximize experiential student training in large and small domestic animal management. Animal Management Practices (ANSC 2050) was developed to provide cohesive student training in basic concepts of livestock and poultry behavior, welfare, and management in preparation for hands-on experience in Large Farm Animal Practicum Laboratory (ANSC 2051) and in Small Farm Animal Practicum Laboratory (ANSC 2052). Animal Management Practices (ANSC 2050) was designed to be taught both semesters, spring and fall, given the large number of students expected to enroll. Those courses will create a valuable opportunity to expose students to experiential learning in livestock and poultry management practices that are scientifically proven and ethically accepted. Lectures will be organized to match and support ancillary Practicum Laboratory classes mentioned above (ANSC 2051 and ANSC 2052), and vice-versa. Practicum Laboratory courses will provide opportunity for students to interact with beef and dairy cattle, and horses (ANSC 2051) and with small ruminants, swine and poultry (ANSC 2052). Students will be trained to evaluate animal behavior, approach, move and handle animals, to perform routine practices and health interventions, and use and design of adequate facilities for properly handling farm animals. A large number of management practices specific for the various domestic animal species included in the course and the intention to expand opportunities for all students enrolled to have meaningful experiential training are important reasons for separating Large and Small Farm Animal Laboratories. Large Farm Animal Practicum Laboratory will be taught in Fall semesters and Small Farm Animal Practicum Laboratory will be available in Spring semesters.
Additional Justification for the addition of ANSC 2031, 2050, 2051, and 2052

The addition of these four 2000 level courses will be of benefit to all students in the Animal Sciences curriculum, particularly those in the Science and Technology and pre-veterinary medicine concentrations, a combined total of over 250 students.

In both of the abovementioned concentrations, students are required to take 15 hours of ANSC electives at the 2000 level or above. The addition of new courses at the 2000 level will offer greater flexibility in students satisfying degree requirements in a timely manner, as well as provide content that is currently lacking in the program. The addition of hands on coursework at the sophomore level will better prepare students for junior and senior level courses and labs. Students in all other concentrations may opt to take these courses as part of their free and approved electives as well. There are currently 20 students in the Animal, Dairy, and Poultry Sciences minor who may opt to take these courses to fulfill the minor requirement of 9 hours at the 3000 level or below.

Because the courses will not be required for majors, but rather available as electives, there is not a risk of students delaying graduation due to space issues.

ANSC 2050 can be taken as either a pre-requisite or co-requisite with ANSC 2051 and ANSC 2052.
The School of Animal Sciences has the largest undergraduate enrollment in the College of Agriculture. Having approximately 400 students necessitates increasing the number of courses offered by the department. Recently we changed our degree title from Animal, Dairy, and Poultry Sciences to Animal Sciences and this change facilitated the need to evaluate the curriculum. During this process the faculty determined there was a need to have a course with two laboratories at the 2000 level. These three new classes give our students the opportunity to learn about and have hands-on experiences with dairy cattle, beef cattle, swine, poultry, sheep, goats and horses. These three classes will replace a hands-on dairy management course which can no longer be offered since there are no dairy facilities on campus.

The faculty also recognized the need to have a course on equine management practices. This course gives the students the ability to learn about the equine industry along with some hands-on opportunities. This course replaces a class on basic horsemanship that was taught off-site at a private stable. The focus of the course was riding, and was not meeting the needs of our science-based curriculum.

Due to the small number of 2000 level courses associated with hands-on experience being taught in the department, along with the large number of students in the curriculum, we are expecting these classes will fill to capacity. Due to increased urbanization, the typical animal science student comes to LSU with minimal hands-on experience. Therefore, the creation of these courses will meet the needs of the department's student body by providing them with animal contact, as well as preparation for senior level animal science courses.
ANIMAL SCIENCE 2052
SMALL FARM ANIMAL PRACTICUM LABORATORY
SPRING 2017

Instructor: Vinicius Moreira
Associate Professor, Nutrition and Nutrient Management
School of Animal Sciences
Louisiana State University
110 Dalrymple Memorial
Baton Rouge, LA 70894
Phone: (225) 578-0880
Email: vmoreira@agcenter.lsu.edu
Office hours: Monday through Friday from 10 am to 12 pm.

Animal Unit Managers:

Central Research Station
Beef Unit
Horse and Small Ruminant Units
Poultry Unit
Swine Unit and Meat Lab

Tony Bridges
Franklin “Randy” Wright
Gerardo Romero
Manuel “Boo” Persica

Course Description: ANSC 2052 Small Farm Animal Practicum Laboratory (1 credit; 3 hour laboratory). Prereq: ANSC 1011; credit or registration in ANSC 2050 and School Permission. Students will learn by practicing routine as well as special husbandry activities related to animal handling, care, movement, restraint and their interactions with different facilities and production systems. Practices in small ruminants (sheep and goats), swine and poultry will be the main subjects of this course.

Course Objectives:
Students will:
1) Experience basic training in small farm animals (small ruminants, swine and poultry) behavior and health.

2) Learn basic techniques for safely handling and managing small farm animals.

3) Develop critical thinking to evaluate and adapt the skills learned to fit unique practical circumstances with the objective to minimize stress and injuries of animals and humans.

Class schedule:
Wednesdays, 12:30 – 3:30 pm
Suggested reading:
This course does not require textbook, but students are strongly encouraged to expand classroom lectures with extra reading materials. Individual handouts and reference materials will be provided when appropriate.

Books:

Websites:
Livestock: LSU AgCenter website:
http://www.lsuagcenter.com/topics/livestock: Local portal links to extension publications on management practices in livestock and poultry.
Livestock: National Center for Appropriate Technology (NCAT) Appropriate Technology Transfer for Rural Areas (ATTRa):
Maryland Small Ruminant Page:
http://www.sheepandgoat.com/: Website containing a wealth of resources on small ruminants.

Students are expected to spend at least an equivalent number of hours outside of class for each scheduled class period on course-related activities. These include reading course materials before class, preparing for exams, completing class assignments, volunteer animal handling activities, or any other activities related to learning and demonstrating the information in the course.
Grading:

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Grading Policies:

1. Participation:
   a. Presence (200 points): success in this course will be influenced by attendance. Absent (excused or not) students will not be able to make up experiences planned for missed classes because of the programmatic nature of this course. As indicated above, each unexcused absence will result in 14 points deduction in Participation points.
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2. Assignments: A minimum of 3 assignments will be required throughout the semester. Those assignments will require students to develop journals for three distinct activities:
   a. Class summary: each student is expected to summarize and discuss activities developed during every laboratory class.
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3. Final exam: The exam will cover material specifically discussed in lectures or in assigned readings. It will include a combination of written, oral and demonstration assessments to be taken at the animal units.
Letter grades will be awarded based on the following.

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**Course Policies**

*Attendance:*
An excuse must be submitted in advance for scheduled absences or within a reasonable timeframe in case of unforeseen circumstances.

*Exams:*
Students may be excused from an exam for a legitimate reason (i.e. illness, family crisis, school function). You will need to verify your excuse with a note from your doctor or faculty advisor. We would also appreciate a phone call or email from you before the exam. The missed exam must be rescheduled promptly. An unexcused absence from the exam without prior notification will result in a zero on the exam grade.

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Disabilities Statement:
If you have special needs addressed by the Americans with Disabilities Act, please notify your instructors immediately for proper accommodations. LSU Disabilities Services: http://appl003.lsu.edu/slas/ods.nsf/$Content/ODS+Main+Office?OpenDocument

Syllabus Change Policy:
This syllabus is a guide for the course and is subject to change with advanced notice.

Laboratory Classes and Field Trips:
Laboratory classes will take place at LSU AgCenter Central Station Animal Units. Students will be asked to meet on time at the facilities scheduled for each week/activity. Field trips are anticipated in this course to include animal species maintained in any LSU AgCenter Units near campus (Dairy is an example). The department will provide transportation for these events. An effort will be made to keep the duration of field trips within class schedule.

SAFETY DISCLAIMER AND CLOTHING:
A characteristic of animal management is that it is always unpredictable, often times dirty and sometimes hazardous because of animal nature, and their interaction with humans (particularly inexperienced ones) and facilities (particularly poorly designed). Students attending this laboratory class are expected to behave responsibly around animals AND are REQUIRED to wear proper clothing, including long pants and closed toe footwear (preferably boots). Leather gloves will be required for handling animals and equipment to minimize risk of accidents. Louisiana weather can be often challenging: students must come to Animal Units prepared with rain gear (for example: umbrella or rain coat, rubber boots or boot cover). Student signatures will be required in a Risk Management waiver and a Biosecurity form agreement before the first laboratory session. Under-aged students (18 and under) will be required to obtain parent/adult guardian signatures. Failure to sign the documents will result in students being prevented from attending classes and will be counted as absence.

Class Outline:
Week 1:
- Course introduction
- Safety disclaimers and form signatures

Week 2, 3 and 4:
First round of visits to the Animal Units (Small ruminants, Swine, Poultry, not necessarily in this order):
- Students will become acquainted with facilities, general animal characteristics, basic animal behavior and simple management practices like animal flight and fight zones. Deadline to communicate interest in Volunteer animal handling activities
Week 5, 6 and 7:

Second round of visits to the Animal Units (Small ruminants, Swine, Poultry, not necessarily in this order):
- Students will become acquainted with specific routine practices such as feeding, milking, approaching, catching, haltering and leading animals.

Week 8, 9, 10

Third visit to Animal Units (Small ruminants, Swine, Poultry, not necessarily in this order)
- Students will become acquainted with more specific routine practices such as animal restraint, identification, sheering, and castration.

Week 11, 12, 13

Fourth visit to Animal Units (Small ruminants, Swine, Poultry, not necessarily in this order)
- Students will become acquainted with special situations in animal health management such as injections, parasite control, dehorning, and withdrawal times.

Week 14

Management for shipping and processing.
Assignments must be turned in.

Week 15

FINAL EXAM