ANSC 340: Reproductive Physiology of Domestic Animals  
CSU, Chico – College of Agriculture  
Fall 2017 – Course Syllabus

Instructor: Dr. Patrick Doyle  
Office location: PLMS 111  
Telephone: 898-6586  
E-mail: pdoyle@csuchico.edu  
Office hours: MTW 10-11 am (or by appointment)  
Due to additional responsibilities as COA Program Coordinator, appointments outside designated office hours can be arranged and are encouraged. Email for an appointment.

Class days and times: MWF 12-12:50 pm  
Classroom: Lecture – PLMS 106

Course Usage of Blackboard Learn  
Copies of the course syllabus and major assignments may be found on Blackboard Learn. You are responsible for regularly checking the online resources, which is accessed through the Chico State Portal at http://portal.csuchico.edu. Assignments, lecture notes, class project information, and online reading assignments are available via the course Blackboard Learn page.

Course Description and Goals  
ANSC 340 promotes an understanding of reproductive processes in domestic animals. The course will emphasize basic and comparative aspects of reproductive physiology to meet the needs of students in agricultural sciences, animal sciences, biology, pre-veterinary medicine, and related fields. Lecture material will provide a fundamental understanding of reproductive mechanisms, including basic anatomy/physiology, endocrinology, cellular signal transduction involved in hormone production and secretion, cyclicity, and factors influencing onset of puberty, ovulation, fertilization, gestation, and the initiation of parturition. The latest in reproductive technologies (e.g. artificial insemination, estrous synchronization, embryo transfer, embryo sexing) will be discussed as applied to agriculture.

Course Content Learning Outcomes Material covered in ANSC 340 addresses the following SLO’s for the College of Agriculture degree programs in Agricultural Science and Animal Science:

- Demonstrate basic principles of reproductive physiology
Required Texts/Readings

Required Textbook:

Recommended Text:
See Blackboard Alternative Textbook Materials

Classroom Protocol
- You are expected to attend each class and to actively participate in discussions and planned activities. **Show up on time. More than 5 minutes late – don’t come. If you have to study for another class during lecture, don’t come.**
- A missed exam will result in 0 points unless prior arrangements have been made with the instructor, or there is evidence of a serious and compelling reason (see *University Catalog*).
- If a student misses a class and/or lab, it is the student’s responsibility to obtain the missed material from fellow classmates. (Follow ‘ask three and then me’; choose your three fellow classmates wisely.)
- Assignments are due at the start of class. NO EXCEPTIONS. No late assignments will be accepted. **Assignments left under office door will not be accepted. If you cannot locate me, leave assignment in mailbox in PLMS 317 with time stamp.**

  **General rule of thumb:**
  **Before the fact = good planning on your part.**
  **After the fact = it’s just an excuse.**

- All assignments are to be type-written. Handwritten assignments will not be accepted unless explicitly stated such as assignments requiring hand calculations.
- All assignments are to reflect your individual effort unless instructions explicitly state the assignment is a group effort.
- **At the start of class** on the designated Doyle’s Pardon Day (check syllabus schedule), you may turn in missed assignments (excluding quizzes and oral presentations) for **UP TO HALF** of the original total points for the assignment. The assignment must be type-written and represent your original work.

Expected Student Behavior in the Classroom
- Students are expected to turn off all pagers, cell phones and other electronic devices during class time. **Interruptions will negatively impact your grade. Five points will be deducted for every disruption.**
- Students are expected to pay attention and participate in class meetings.
- Students may not read other materials (newspapers, magazines) during class.
- Students are to remain in class during the entire session with the exception of breaks. Students are not allowed to come and go during the class session.
- All class participants are expected to exhibit respectful behavior to other students and the instructor.
- All students have the right and privilege to learn in the class, free from harassment and disruption.
- Inappropriate or disruptive behavior will not be tolerated, nor will lewd or foul language.
- The class follows the standards set in the Code of Students Rights and Responsibilities (EM 96-38) and students are subject to disciplinary action for violation of that code.

### Assignments and Grading Policy

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester Project</td>
<td>150</td>
</tr>
<tr>
<td>Quizzes (In-Class/Blackboard – 6 total)</td>
<td>300</td>
</tr>
<tr>
<td>Comprehensive Final Exam</td>
<td>150</td>
</tr>
<tr>
<td>Self-Study Exercises</td>
<td>100</td>
</tr>
<tr>
<td>Pop Quizzes/Biweekly Quizzes/Participation</td>
<td>300</td>
</tr>
</tbody>
</table>

**Total** 1000*  
*Actual number of total points may vary depending upon actual number of problems/quizzes/labs/assignments given.

**Grading Scale:**

- A ≥ 93%
- B ≥ 83%
- C ≥ 73%
- D ≥ 60%
- A- ≥ 90%
- B- ≥ 80%
- C- ≥ 70%
- F < 60%
- B+ ≥ 87%
- C+ ≥ 77%
- D+ ≥ 67%

If there is evidence that you have been involved in any form of academic dishonesty, you will receive an “F” grade for the course, be locked from Blackboard Learn, and a report will be provided to Student Judicial Affairs for further action.

If a student feels an error in grading has been made, the student has one week from the time of the assignment is returned to them (or the grade is posted on the web, whichever is later) to request a review of the grade. The request must be in writing – attached to the original assignment—and must include a specific statement as to what is in error, how it should be corrected, and what supporting evidence is available.

**Semester Research Project (tentative details): “Snake Oil” vs. “Sound Science”**

Research in reproductive physiology has generated a wide variety of products. The majority of these products are aimed at manipulating reproduction in order to make it easier and more efficient. Many of these products are based on sound scientific principles and have been widely tested under controlled scientific experimentation. However, some
are scientifically sound but lack definitive proof of their value and their efficacy. Still others 
have no scientific basis, have not been tested at all, and might be classified as “snake oil”.

Educated individuals are equipped with the knowledge to discriminate between products 
that offer the potential for solid, cost-effective advantages from those that make untested 
claims. The goals of the assignment are listed below.

- To introduce you to a variety of reproductive management technologies 
available for purchase.
- To provide you with the opportunity to link basic knowledge learned in ANSC 340 to real-world application.
- To provide the opportunity to critically evaluate various technologies as to 
their validity, efficiency of use and cost-effectiveness.

**TENTATIVE SCHEDULE – SUBJECT TO CHANGE WITH FAIR NOTICE**

<table>
<thead>
<tr>
<th>Week</th>
<th>Lecture</th>
<th>Quizzes*</th>
<th>Weekly Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 21</td>
<td>Ch 1 Intro, Chapter 2: Female Anatomy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aug 28</td>
<td>Ch 2: Female Anatomy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sep 4</td>
<td>Ch 3: Male Anatomy</td>
<td>Q1</td>
<td>Livestock Repro Anatomy Online Self-Study</td>
</tr>
<tr>
<td>Sep 11</td>
<td>Ch 4: Embryogenesis of Male and Female Tract</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sep 18</td>
<td>Ch 5: Endocrinology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sep 25</td>
<td>Ch 5: Endocrinology</td>
<td>Q2</td>
<td>Endocrinology Self-Study</td>
</tr>
<tr>
<td>Oct 2</td>
<td>Ch 6: Onset of Puberty</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oct 9</td>
<td>Ch 6: Onset of Puberty</td>
<td>Q3</td>
<td></td>
</tr>
<tr>
<td>Oct 16</td>
<td>Ch 7: Reproductive Cycles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oct 23</td>
<td>Ch 8: Follicular Phase of Estrous Cycle</td>
<td>Q4</td>
<td></td>
</tr>
<tr>
<td>Oct 30</td>
<td>Ch 9: Luteal Phase of Estrous Cycle Friday – School Holiday</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nov 6</td>
<td>Ch 10: Male Endo and Spermatogenesis</td>
<td>Q5</td>
<td>Reproductive Behavior Self-Study</td>
</tr>
<tr>
<td>Nov 13</td>
<td>Ch 12: Sperm in the Female Tract: Transport, Capacitation, and Fertilization</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nov 20</td>
<td>Thanksgiving Holiday</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nov 27</td>
<td>Ch 13: Early Embryogenesis and MRP</td>
<td>Q6</td>
<td></td>
</tr>
<tr>
<td>Dec 4</td>
<td>Ch 14: Placentation, Endocrinology of Gestation and Parturition (Doyle's Pardon Day, M -12/4 by start of class)</td>
<td></td>
<td>I, D, NC Self-Study</td>
</tr>
<tr>
<td>Dec 11</td>
<td>Tentative Final Date: TBD</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Quizzes are in-class on Friday of the week noted.
University Policies and Campus Resources

Dropping and Adding
You are responsible for understanding the policies and procedures about add/drops, academic renewal, etc. found http://www.csuchico.edu/catalog/. You should be aware of the new deadlines and penalties for adding and dropping classes. Students are responsible for handling the necessary paperwork for adding or dropping this class. University guidelines for dropping classes are strictly adhered to. As per your student catalog, students may add or drop courses without penalty during the first two weeks of school. During the third and fourth weeks of classes, COP forms to add or drop the course require an instructor signature. After this date, all COP forms to add or drop require a serious and compelling reason (see catalog) and require approval signatures of instructor, department chair and dean of college. If you drop before the end of the fourth week, the course will not appear on your academic record. However, a grade of “W” (for “Withdrawal”) will appear on your academic record if dropped after the fourth week.

Academic integrity
Students are expected to be familiar with the University’s Academic Integrity Policy. Your own commitment to learning, as evidenced by your enrollment at California State University, Chico, and the University’s Academic Integrity Policy requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the Office of Student Judicial Affairs. The policy on academic integrity and other resources related to student conduct can be found at: http://www.csuchico.edu/sjd/integrity.shtml.

Campus Policy in Compliance with the American Disabilities Act
If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Students with disabilities requesting accommodations must register with the DSS Office (Disability Support Services) to establish a record of their disability. If you have a disability that requires special accommodations, you must contact a counselor at Disability Support Services, Student Services Center Rm 170 (530) 898-5959. Special accommodations for exams require ample notice to the testing office and must be submitted to the instructor well in advance of the exam date.

IT Support Services
Computer labs for student use are located on the first and fourth floor of the Meriam Library, Room 116 and 450, Tehama Hall Room 131, and the Bell Memorial Union (BMU) basement. You can get help using your computer from IT Support Services; contact them through their website, http://www.csuchico.edu/itss. Additional labs may be available to students in your department or college.
**Student Services**
Student services are designed to assist students in the development of their full academic potential and to motivate them to become self-directed learners. Students can find support for services such as skills assessment, individual or group tutorials, subject advising, learning assistance, summer academic preparation and basic skills development. Student services information can be found at: [http://www.csuchico.edu/current-students](http://www.csuchico.edu/current-students).

**Americans with Disabilities Act**
If you need course adaptations or accommodations because of a disability or chronic illness, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Please also contact Accessibility Resource Center (ARC) as they are the designated department responsible for approving and coordinating reasonable accommodations and services for students with disabilities. ARC will help you understand your rights and responsibilities under the Americans with Disabilities Act and provide you further assistance with requesting and arranging accommodations.

**Accessibility Resource Center**
http://www.csuchico.edu/arc
530-898-5959
Student Services Center 170
arcdept@csuchico.edu