

ANFS 442
Lactational Physiology
Fall 2015

Time and Place: Tuesday / Thursday
2:00 – 3:15 pm
320 Gore Hall

Instructor: Dr. Tanya Gressley
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302-831-1940
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Office hours: by appointment
032 Townsend Hall



Program Student Learning Objectives:

University of Delaware General Education Goals (<http://www2.udel.edu/gened/>) addressed by this course include:

- 1 Attain effective skills in (a) oral and (b) written communication, (c) quantitative reasoning, and (d) the use of information technology.
- 2 Learn to think critically to solve problems.
- 3 Be able to work and learn both independently and collaboratively.
- 6 Develop the intellectual curiosity, confidence, and engagement that will lead to lifelong learning.
- 7 Develop the ability to integrate academic knowledge with experiences that extend the boundaries of the classroom.

ANFS Curriculum Learning Goals (<http://canr.udel.edu/program-assessment/>) addressed by this course include:

- Students will demonstrate written communication skills important for communicating scientific ideas. (Communications Goal)
- Students will use critical thinking and reasoning, skeptical inquiry and scientific approach to solve problems. (Critical Thinking Goal)
- Students will demonstrate knowledge of the major core concepts in the animal and food sciences. (Content Goal)

Course Student Learning Objectives:

As you complete this course, you will be able to:

- 1) Demonstrate knowledge of the anatomy and physiology of the mammary gland from the cellular to the whole animal level
- 2) Describe regulation of mammary gland development and milk synthesis
- 3) Use critical thinking and reasoning to predict how changes in physiology and management will affect milk synthesis and composition
- 4) Critically evaluate primary research publications
- 5) Effectively communicate scientific ideas in writing

Text: There is no text for this course. This course was developed using *Lactation and the Mammary Gland* (R. M. Akers, 2002, Iowa State Press). This is a difficult reading and most students do not report finding the text helpful. However, if you are a book learner you may find the text helpful and can order a used copy online.

Lectures and UD Capture: The most successful students in this course typically attend lectures, are alert and engaged during lecture, and ask questions during lecture. Lectures are being recorded using UD Capture. If you cannot access the lectures or have any other problems with UD Capture, please let me know.

Sakai: Course materials will be posted on Sakai. Students who wish to have printed slides are responsible for printing them and bringing them to class.

Journal Article Assignments: Students will read and critically evaluate two primary research articles in the field of lactational physiology. The assignments are each worth 20 points and are due on October 1 and October 29. Lecture periods on those dates will be devoted to discussing the articles. Attendance on those dates is required to be eligible for full credit on journal article assignments. Late assignments will be penalized 10% per day. The journal articles and assignment details will be posted on Sakai.

Quizzes: There are 5 quizzes, each worth 20 points. Quizzes will be administered at the beginning of the lecture periods indicated in the schedule.

Exams: There will be two lecture period exams (100 points each) and a cumulative final (200 points).

Attendance: Excused absences are required on dates of quizzes, exams, and journal article discussions. For missed quizzes due to excused absences, the quiz grade will be replaced by an average of all other quiz grades. Missed exams and journal article discussions due to excused absences will be made up as determined by the instructor. For absences due to short-term illness, please email the instructor prior to the start of class to make arrangements for any missed work. Absences due to serious illness or to a serious family issue must be validated through the Undergraduate Student Services Office. Attendance policies follow those set forth by UD (<http://facultyhandbook.udel.edu/handbook/3113-student-class-attendance-and-excused-absences>).

Student Conduct: Unacceptable student behavior as outlined in the Code of Conduct (<http://www.udel.edu/stuguide/13-14/code.html>) will not be tolerated. Examples of disruptive conduct are holding independent conversations in class or texting.

Academic Honesty: Academic dishonesty of any form will not be tolerated. You are encouraged to become familiar with the University’s Policy on Academic Dishonesty (<http://www.udel.edu/stuguide/13-14/code.html>). The content of the guide applies to this course.

Grading:

Journal article assignments	40
Quizzes	100
Exam 1	100
Exam 2	100
Cumulative final exam	200
Total possible points	540

Final point total will be calculated as the sum of points from exams and assignments. Letter grade will be assigned according to the scale below:

Grade:	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
Minimum:	90.0%	88.0%	86.0%	80.0%	78.0%	76.0%	70.0%	68.0%	66.0%	60.0%	55.0%	<55%

Schedule: Dates of lectures, exams, and assignments are outlined below.

Date	Lecture/Assignment
9/1, Tues.	Lecture 1
9/3, Thurs.	Lecture 2
9/8, Tues.	Lecture 3
9/10, Thurs.	Quiz 1 , Lecture 4
9/15, Tues.	Lecture 5
9/17, Thurs.	Lecture 6
9/22, Tues.	Lecture 7
9/24, Thurs.	Quiz 2 , Lecture 8
9/29, Tues.	Lecture 9
10/1, Thurs.	Journal article 1 , Lecture 10
10/6, Tues.	Lecture 11
10/8, Thurs.	Exam 1 (covers materials from 9/1-10/1)
10/13, Tues.	Lecture 12
10/15, Thurs.	Lecture 13
10/20, Tues.	Lecture 14
10/22, Thurs.	Quiz 3 , Lecture 15
10/27, Tues.	Lecture 16
10/29, Thurs.	Journal article 2 , Lecture 17
11/3, Tues.	Lecture 18
11/5, Thurs.	Quiz 4 , Lecture 19
11/10, Tues.	Lecture 20
11/12, Thurs.	Lecture 21
11/17, Tues.	Exam 2 (covers materials from 10/6-11/10)
11/19, Thurs.	Lecture 22
12/1, Tues.	Lecture 23
12/3, Thurs.	Honors presentation, Lecture 24
12/8, Tues.	Quiz 5 , Lecture 25
Final exam	~70 points new material (11/12-12/8); ~130 materials before 11/12