Animal Science/Dairy Science 434
Reproductive Physiology
Introduction and Course Structure
Fall 2017

Dr. John J Parrish

Bachelor of Science
- Animal Science

Species
- Swine
- Cattle

Campus Activities
- Milk processing
- Swine farm
- Alpha Gamma Rho

Ph.D.
- Animal Science
- Male Fertility

Species
- Cattle, Rabbits, Hamsters, Guinea Pigs, Goats, Sheep, Dogs, Humans

Cornell University
State of New York
Post Doc.  
• Animal Science  
• In Vitro Fertilization

Faculty  
• Animal Science

Species  
• Cattle, Swine, Horses, Water Buffalo, Humans, Chickens, Turkeys

Male Reproduction (40 years)  
• Semen evaluation  
• Fertility Prediction  
• In vitro fertilization  
• Sperm capacitation  
• Quantitative image analysis of sperm

Species of Males  
• Large Animal  
  » Bull, stallion, ram, boar, water buffalo, human  
• Small Animal  
  » Dog, rabbit, mouse, hamster, guinea pig  
• Avian  
  » Rooster, turkey

Special 2017 Information  
• Lectures - Live only  
  » Some podcasts may become available but do not count on them.  
• Dr. Parrish is available in person during lab 301 and 303 or via email.  
  » Sorry I have another class during lab 304  
• Information comes via lecture, email and Canvas.

Instructors  
• John J. Parrish (Professor)  
  » Responsible for entire course  
• Rick Monson (Faculty Associate)  
  » Coordinator for sections 301, 303.  
• Nicole Gross (Graduate Student)  
  » Coordinators for sections 304  
  Contact information in Course Website

Laboratories  
• Labs (sections 301, 303 and 304)  
  » Planned for 2 hr  
  » may last 2.5 hr so plan ahead  
• Lab involves work with tissue and animals.  
  » Bring appropriate cloths  
  » Will be covered more in lab.  
  - Section 301 we will not meet live in week 1. In week 2 you will work with tissue and cattle so dress appropriately.
Text (Required)

- Pathways to Pregnancy and Parturition - Third Edition
- P.L. Senger
- UW Bookstore, Amazon
- Library (not on reserve)
- Read assigned chapters before viewing lecture material!!!

Specific edition guaranteed ok for exams!

Canvas

- Course Management Software
- All material and submissions can be initially accessed via canvas

Canvas and Course Websites

Canvas
- Syllabus and Course summary
- Submit and view assignments
- Group enrollment (People, Groups)
- Answer keys (Modules)
- Grades
- Collaborations
- Google drive or Office 365
- Student Photos

Course Web Site (ANSCI Server)
- Syllabus
- Lecture
  - Powerpoint files
  - Outlines, handouts
  - Other files
  - Podcast if available
- Labs
- Lab, Cow project Calendar
- Practice Lecture Quizzes

434 Web Site Modifications

- Both Canvas and Course Website Updates may occur daily.
Lecture Material
• Lecture in course website Nav Bar
  » Chapters in Text
  » Outlines
  » Powerpoint
    - ppt or pptx file
    - PDF slide handout (6 slides/page)
  » Video/animations
  » Podcast when available - Streaming video - Kaltura

Study Time and Difficulty
• Lecture
  » 2 hours study time for each 1 hour of lecture
• Lab
  » 1 hour study time for each hour of lab
• Course difficulty
  » Dairy and Animal Science Students
    » One of the most difficult in your majors
  » Biology majors
    » Similar to other science classes

Grading

See Syllabus!

Overall Philosophy
• Course is organized to educate you.
  » Learning objectives and outcomes are specified
  » Lecture and Lab are linked.
  » A variety of learning approaches are used.
• The course is intended to challenge you and you must work to succeed.

Overall Philosophy (cont.)
• Get your money’s worth; extrapolate and integrate. This is how you succeed!

• Memorization does not lead to success in life!

Overall Philosophy (cont.)
• What soft skills did you gain in this course?
  » These are what employers are looking for!!!!