

Term Information

Effective Term Autumn 2015
Previous Value Summer 2012

Course Change Information

What change is being proposed? (If more than one, what changes are being proposed?)

Add an on-line section of the course in addition to the in-person section already offered.

What is the rationale for the proposed change(s)?

To offer a self-paced learning media to students that prefer distance learning flexibility.

What are the programmatic implications of the proposed change(s)?

(e.g. program requirements to be added or removed, changes to be made in available resources, effect on other programs that use the course)?

None

Is approval of the request contingent upon the approval of other course or curricular program request? No

Is this a request to withdraw the course? No

General Information

Course Bulletin Listing/Subject Area Animal Sciences
Fiscal Unit/Academic Org Animal Sciences - D1132
College/Academic Group Food, Agric & Environ Science
Level/Career Undergraduate
Course Number/Catalog 2200.01
Course Title Introductory Animal Sciences
Transcript Abbreviation Animal Sci Intro
Course Description A study of the basic principles of genetics, breeding, reproduction, nutrition, behavior, and biotechnology as it applies to the molecular, cellular, and physical underpinnings of domesticated animal form and function.
Semester Credit Hours/Units Fixed: 3

Offering Information

Length Of Course 14 Week
Flexibly Scheduled Course Never
Does any section of this course have a distance education component? Yes
Is any section of the course offered 100% at a distance
Less than 50% at a distance
Previous Value No
Grading Basis Letter Grade
Repeatable No
Course Components Lecture
Grade Roster Component Lecture
Credit Available by Exam No
Admission Condition Course No
Off Campus Never
Campus of Offering Columbus

Prerequisites and Exclusions

Prerequisites/Corequisites

Exclusions

[Previous Value](#)

The on-line course is not open to students with a declared Animal Sciences major.
Not open to students with credit for 2300H (200H) or 200.

Cross-Listings

Cross-Listings

Subject/CIP Code

Subject/CIP Code

01.0901

Subsidy Level

Baccalaureate Course

Intended Rank

Freshman, Sophomore

Requirement/Elective Designation

Required for this unit's degrees, majors, and/or minors

General Education course:

Biological Science

The course is an elective (for this or other units) or is a service course for other units

Course Details

Course goals or learning objectives/outcomes

- A biological systems based approach to equip a broad range of students with the knowledge and critical thinking skills required to address questions concerning the maintenance, reproduction, and performance of domestic animals
- Be familiar with the historical, social, and biological contexts that govern the study of animals
- Understand basic principles of genetics, breeding, reproduction, nutrition, behavior, and biotechnology
- Appreciate the molecular, cellular, and physical underpinnings of animal form and function
- Develop the ability to critically evaluate concepts in science as they are applied to the study of animals
- Construct innovative approaches to, and solutions of, problems encountered when maintaining animals for human benefit
- Appreciate the uses of animals and social attitudes regarding how animals are used
- Have a broad understanding of biotechnology and its uses toward advancing the health and well-being of animals
- Consider positive and negative implications of applying modern technology to animal systems

Content Topic List

- Process of domestication and a historical perspective of how animals and animal sciences have evolved
- Animal behavior and welfare
- Nutrition: nutrient requirements, physiology, and the importance of different digestive strategies
- Organization of biological systems from molecular structures to physical features
- Genetics & application of genetics for animal breeding: natural versus artificial selection
- Biotechnology: progress, applications, and limitations
- Principles of reproduction and assisted reproductive technologies
- Lactation strategies: nutritional and immunological support of the young
- Animal form and function: ruminants
- Animal form and function: small ruminants
- Animal form and function: pseudo-ruminants
- Animal form and function: hind-gut fermenters
- Animal form and function: simple nonruminants
- Animal form and function: avians
- Animal form and function: aquatics
- Global status of the animal industries

Attachments

- ANIMSCI 2200 01 Syllabus.pdf: Syllabus

(Syllabus. Owner: Lyvers Peffer, Pasha A)

Comments

- We want to keep the exclusion that restricts enrollment in the on-line section to non-majors. The CFAES Assessment and Scheduling Coordinator has communicated with the registrar and a reserve cap will be used to put the exclusion place. *(by Lyvers Peffer, Pasha A on 12/16/2014 02:52 PM)*
- The exclusion: (1) Don't you want to keep this language "Not open to students with credit for 2300H (200H) or 200"? (2) The new exclusion re: on-line version will appear for any 2200.01 (whether on-line or not). Please verify with registrar that this could be electronically enforced (if that is what you wish) depending on the mode of offering of the course. *(by Vankeerbergen, Bernadette Chantal on 12/15/2014 04:26 PM)*
- Please make the changes requested by COAA. *(by Neal, Steven Michael on 12/10/2014 04:41 PM)*

COURSE CHANGE REQUEST
2200.01 - Status: PENDING

Last Updated: Neal,Steven Michael
01/14/2015

Workflow Information

Status	User(s)	Date/Time	Step
Submitted	Lyvers Pepper,Pasha A	12/04/2014 10:35 AM	Submitted for Approval
Revision Requested	Neal,Steven Michael	12/10/2014 04:41 PM	Unit Approval
Submitted	Lyvers Pepper,Pasha A	12/13/2014 09:38 AM	Submitted for Approval
Approved	Neal,Steven Michael	12/15/2014 11:20 AM	Unit Approval
Approved	Neal,Steven Michael	12/15/2014 11:20 AM	College Approval
Revision Requested	Vankeerbergen,Bernadette Chantal	12/15/2014 04:27 PM	ASCCAO Approval
Submitted	Lyvers Pepper,Pasha A	12/16/2014 02:52 PM	Submitted for Approval
Approved	Neal,Steven Michael	01/14/2015 03:06 PM	Unit Approval
Approved	Neal,Steven Michael	01/14/2015 03:06 PM	College Approval
Pending Approval	Nolen,Dawn Vankeerbergen,Bernadette Chantal Hanlin,Deborah Kay Jenkins,Mary Ellen Bigler Hogle,Danielle Nicole	01/14/2015 03:06 PM	ASCCAO Approval

ANIM SCI 2200.01: Introductory Animal Sciences
Fall Semester, 2015

Delivery: DL

Instructor: Pasha A Lyvers Pepper, Department of Animal Sciences
lyvers-peffer.1@osu.edu, 292-3896
Office hours: Wednesday, 3:00-4:30 & Thursday 3:00-4:30.

Notes: Not open to Animal Sciences majors. GE Nat Sci Bio course.

Text: Required: ANIMAL SCIENCES, Pepper and Day. Kendall Hunt Publishing; Dubuque, IA:2014. ISBN: 9781465250100

Goals and Objectives: Introductory Animal Sciences is a Natural Science (Biological Science), general education, course that promotes an understanding of modern science through a biological systems based approach. Students learn of the relationship between science and technology, consider the implications of scientific discoveries, and acquire the knowledge and critical thinking skills required to evaluate the potential of science and technology to address problems from a global arena as they pertain to domestic animals used for human benefit.

Learning Objectives:

1. Students appreciate whole animal structure, form and function; growth and development of systems from the cellular level.
2. Students integrate knowledge among anatomy, physiology, genetics, nutrition, and reproduction.
3. Students learn techniques applicable to animal management systems.
4. Students gain knowledge toward the respectful management of animals and the environment.
5. Students gain awareness of how the disciplines of Animal Sciences enhance animal management systems and impact their resulting products

How students meet objectives through this course: The course embodies fundamental concepts in areas of genetics, reproduction, nutrition, behavior, and biotechnology. Students are introduced to the molecular and cellular mechanisms that underscore the function of biological systems and how knowledge in this area is applicable toward appropriate management of domesticated animals. Students will consider how the study of animals has advanced from early scientific discoveries. Through the study of animal systems from the local to global arena, students will appreciate the use of animals and their contributions across diverse populations and understand the local and global impacts of the application of new technologies to the animal industries.

Course Description: A study of the basic principles of genetics, breeding, reproduction, nutrition, behavior, and biotechnology as it applies to the molecular, cellular, and physical underpinnings of domesticated animal form and function.

Goals and Objectives of the GE Natural Science Category: Courses in natural sciences foster an understanding of the principles, theories and methods of modern sciences, the relationship between science and technology, and the effects of science and technology on the environment.

1. Students understand the basic facts, principles, theories and methods of modern science.
2. Students learn key events in the history of science.
3. Students provide examples of the inter-dependence of scientific and technological developments.
4. Students discuss social and philosophical implications of scientific discoveries and understand the potential of science and technology to address problems of the contemporary world

How students meet the GE Natural Science objectives through this course: Students will learn how systematic observations of the natural world have helped define current concepts of science and the role of controlled experimentation in support of early scientific theories through discussions of behavior. An understanding of the foundations of modern science will be acquired through discussions of cell theory, heredity, physiological ecology, energy transfer, and evolutionary strategies of today's domesticated species. Students will gain an appreciation of how human intervention has shaped animal form and function throughout history and the role of technology; addressing the implications of biotechnologies current and future applications.

Animal Sciences 2200.01 Learning Outcomes:

Successful students will:

1. Be familiar with the historical, social, and biological contexts that govern the study of animals.
2. Understand basic principles of genetics, breeding, reproduction, nutrition, behavior, and biotechnology.
3. Appreciate the molecular, cellular, and physical underpinnings of animal form and function.
4. Develop the ability to critically evaluate concepts in science as they are applied to the study of animals.
5. Construct innovative approaches to, and solutions of, problems encountered when maintaining animals for human benefit.
6. Appreciate the uses of animals and social attitudes regarding how animals are used.
7. Have a broad understanding of biotechnology and its uses toward advancing the health and well-being of animals
8. Consider positive and negative implications of applying modern technology to animal systems.

Course Format: *Introductory Animal Sciences* is a distance learning (DL) course. All materials are formatted in learning modules accessed via the internet through Carmen. You must be enrolled within the university (OSU) to participate in the course. You must have access to a computer with the required hardware (internet) and software applications (Microsoft Office applications and Adobe Reader) to access and download on-line learning content.

Topic and Reading Schedule

Week	Topic	Text	Assignment Due
1	Importance of domesticated animals to humans	Chapter 1	
2	Evolution of domesticated species and the process of their domestication	Chapter 2	SEPT 5
3	Animal Behavior and Welfare	Chapter 3 and 16	SEPT 12
4	Nutrition: nutrient requirements, physiology, and the	Chapter 4	EXAM

	importance of different digestive strategies.		
5	Organization of biological systems from molecular structures to physical features.	Chapter 5	SEPT 26
6	Genetics & application of genetics for animal breeding: natural versus artificial selection.	Chapter 5	OCT 3
7	Biotechnology: progress, applications and limitations.	Chapter 5	OCT 10
8	Principles of reproduction and assisted reproductive technologies.	Chapter 6	OCT 17
9	Lactation strategies: Nutritional and immunological support of the young.	Chapter 7	EXAM
10	Animal form and function: Ruminants	Chapter 8 and 9	OCT 31
11	Animal form and function: Small Ruminants & Pseudo-ruminants	Chapter 10 and 14	NOV 7
12	Animal form and function: Hind-gut fermenters	Chapter 12	NOV 14
13	Animal form and function: Simple nonruminants & Avians	Chapter 11 and 13	NOV 21
14	Animal form and function: Aquatics	Chapter 15	DEC 5
15	Did we cover everything?		
	Final Exam		DEC 15

Evaluation Three exams will be given during the semester - two midterms worth 100 points each and a final worth 150 points. **Midterm exams will be non-comprehensive. The final exam will be comprehensive of material learned throughout the semester.** Exams will consist of mixed format questions. In addition, 150 points will be earned through course assignments.

Evaluation	POINTS	
Exam I	100	SEPTEMBER 17-24
Exam II	100	OCTOBER 22-29
Assignments	150	REFER TO SCHEDULE
FINAL EXAM	150	DECEMBER 8-15
Total	500	

Quiz and Exam Schedule:

Introductory Animal Sciences is offered for independent, self-paced study; however, quiz, assignment, and exam deadlines are predetermined to guide progress through learning modules. Quizzes and assignments are completed online using Carmen and may be completed using any computer that allows access the Carmen site for ANIM SCI 2200.01. However, **it is not recommended to use wireless internet access** due to the fact that the internet connection may be lost during the course of completing the quiz. Quizzes may be accessed immediately upon completion of modules or sub-modules or may be accessed separately through the Activities link on the course Carmen page. Quizzes must be completed prior to the deadlines stated in the Topic and Reading Schedule outline. You must first review the learning module content before accessing the quiz. Carmen quizzes are open resource. However, you will need to study and understand the course material before completing the quiz, just as you would for any other class. The quizzes are timed and you will not be able to spend a long time on each question. You are expected to complete the quiz without assistance from others and completion of the quiz is expected to reflect your own efforts.

Exams will be available on Carmen for one week during the dates outlined above. Exams are timed and you will have 90 minutes each for exams I and II and 180 minutes to complete the final exam once the exam is opened.

Grade Scale: Grades will be based on the total points earned as a percentage of total points possible and letter grades assigned as follows:

<u>Percentage</u>		<u>Percentage</u>	
93-100	A	73-76.9	C
90-92.9	A-	70-72.9	C-
87-89.9	B+	67-69.9	D+
83-86.9	B	60-66.9	D
80-82.9	B-	<60	E
77-79.9	C+		

Course Management System This course uses Carmen (<http://carmen.osu.edu>) to manage course content and grades.

Course Policies

Assignment, Quiz, and Exam Policy: There are *no make-up assignments, quizzes, or exams*. After the quiz and/or exam deadlines, the evaluation items are no longer available for a grade. You should be prepared to complete quizzes and exams in advance of the deadline.

E-Mail Etiquette: The use of e-mail has made the classroom professor more approachable and accessible to the student. However, students should realize that e-mail should not always be used as a casual form of communication and professional relationships should be maintained when using e-mail for a class. Below I have included guidelines from Bloomsbury's guide on email etiquette that you should follow when drafting your e-mail. *I will not respond to e-mails that I consider inappropriate. I will respond to appropriate emails in a timely manner, do not expect an immediate reply.*

DO

- Include a descriptive statement in the subject line.
- Use proper salutations when beginning an e-mail.
- Be concise in the body of the e-mail, use complete sentences and proper grammar.
- Use an appropriate closure at the end of each e-mail followed by your first and last name.
- If replying to an e-mail, reference the original e-mail and its content.
- Be selective of your choice of words. Emotions are difficult to convey in text and without the benefit of facial expressions your sentiment can be lost in the words you choose to write.

DON'T

- Use all capital letters; this conveys a tone of ANGER.
- Use e-mail as a format to criticize other individuals.
- Ask for your grade via e-mail. Grades will not be discussed by e-mail. If you need to discuss a graded item make an appointment to do so in my office.
- E-mail to inquire when grades will be posted. We will work toward submitting grades promptly, however, recognize that grading assignments and exams requires considerable time to ensure uniformity and fairness.
- Send an e-mail out of frustration or anger. Learn to save the e-mail as a draft and review at a later time when emotions are not directing the content.

Respecting Intellectual Property: Course materials are the property of the instructor. Students may not distribute provided course material without the permission of the instructor. Course material includes, but is not limited to, on-line documents, video, or audio recordings.

University Policies

Disability Services: Students with disabilities that have been certified by the Office for Disability Services will be appropriately accommodated, and should inform the instructor as soon as possible of their needs. The Office for Disability Services is located in 150 Pomerene Hall, 1760 Neil Avenue; telephone 292-3307, TDD 292-0901; <http://www.ods.ohio-state.edu/>.

Academic Misconduct: As stated by Ohio State University's Office of Academic Affairs, academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understand the University's *Code of Student Conduct*, and that all students will complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow the rules and guidelines established in the University's *Code of Student Conduct* and this syllabus may constitute "Academic Misconduct."

The Ohio State University's *Code of Student Conduct* (Section 3335-23-04) defines academic misconduct as: "Any activity that tends to compromise the academic integrity of the University, or subvert the educational process." Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the University's *Code of Student Conduct* is never considered an "excuse" for academic misconduct, so I recommend that you review the Code of Student Conduct and, specifically, the sections dealing with academic misconduct.

If I suspect that a student has committed academic misconduct in this course, I am obligated by University Rules to report my suspicions to the Committee on Academic Misconduct. If COAM determines that you have violated the University's *Code of Student Conduct* (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the University. If you have any questions about the above policy or what constitutes academic misconduct in this course, please contact me or visit oaa.osu.edu/coam/home.html.