

Course Schedule - Spring 2007

Animal Sciences

100 **Intro to Animal Sciences** Credit: 4 hours.

Survey of beef and dairy cattle, companion animals, horses, poultry, sheep, and swine. Includes the importance of product technology and the basic principles of nutrition, genetics, physiology, and behavior as they apply to breeding, selection, feeding, and management. Lecture and lab.

Additional Lab Fee Required. Students must register for one lab and one lecture section.

CRN	Type	Section	Time	Days	Location	Instructor
29911	laboratory	AB1	08:00 AM - 09:50 AM	T	room ARENA Stock Pavilion	Parrett, D
29915	laboratory	AB2	03:00 PM - 04:50 PM	T	room ARENA Stock Pavilion	Parrett, D
29918	lecture	AL1	11:00 AM - 11:50 AM	MWF	room 131 Animal Sciences Laboratory	Parrett, D

103 **Working With Farm Animals** Credit: 2 hours.

Introductory course that will provide novice students with the fundamentals of animal-animal and animal-human interactions for domestic farm animals. Emphasizes hands-on experiences to develop a background in the concepts and practice of recognizing and understanding the animal's physiology and behavior, animal well being, and animal responses to human interactions. Prerequisite: ANSC 100.

CRN	Type	Section	Time	Days	Location	Instructor
29919	laboratory	AB1	03:00 PM - 04:50 PM	T	room 131 Animal Sciences Laboratory	Cobb, A; Hurley, W; Parsons, C
29920	lecture	AL1	02:00 PM - 02:50 PM	R	room 131 Animal Sciences Laboratory	Cobb, A; Hurley, W; Parsons, C

110 **Life With Animals and Biotech** Credit: 3 hours.

Lecture/discussion course that will provide students an overview of biotechnology and animals. Focuses on biotechnological achievements involving animals and how they influence the global development of agriculture, medicine, and industry. Topics will be covered from scientific, discovery, historical, social, and political perspectives.

This course satisfies the General Education Criteria for a Life Sciences course.

CRN	Type	Section	Time	Days	Location	Instructor
39451	lecture-discussion	A	03:00 PM - 03:50 PM	W	room 131 Animal Sciences Laboratory	Kesler, D

39451: Discovery, and Life Sciences course.

	lecture-discussion	A	03:00 PM - 04:50 PM	M	room 131 Animal Sciences Laboratory	Kesler, D
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: Discovery, and Life Sciences course.

: Life with Animals and Biotech, 3 hours. This course will provide students with an overview of biotechnology and animals. It focuses on biotechnological achievements involving animals and how they influence the global development of agriculture, medicine, and industry. Topics will be covered from scientific, discovery, historical, social, and political perspectives. First Year Discovery Program Course. Registration restricted to freshmen. Students should enroll in only one Discovery course.

199 Undergraduate Open Seminar Credit: 1 to 5 hours.

An experimental course on a special topic in animal sciences. Topic may not be repeated except in accordance with the Code. May be repeated to a maximum of 12 hours. No more than 12 hours may be counted toward graduation.

CRN	Type	Section	Time	Days	Location	Instructor
10232	independent study		ARRANGED			

10232: Instructor Approval Required

204 Intro Dairy Cattle Evaluation Credit: 2 hours.

Evaluation of physical traits of dairy cattle in relation to economic value and genetic improvement; sire selection, mating systems, and genetic merit for dairy cattle. Field trip required. See Class Schedule for approximate cost of field trip. Prerequisite: ANSC 100 or consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
29923	laboratory	AB1	03:00 PM - 04:50 PM	W	room 292 Animal Sciences Laboratory	McCoy, G; Miller, D
29924	lecture	AL1	03:00 PM - 04:50 PM	M	room 292 Animal Sciences Laboratory	McCoy, G; Miller, D

205 World Animal Resources Credit: 3 hours.

Examination of the world's animals, domesticated and wild, and their uses in various climatic, economic and cultural contexts. Exploration of their contemporary management and their future prospects. Provides background for international experiences, such as ACES 298 and ACES 299. Prerequisite: Completion of the campus Composition I general education requirement.

This course satisfies the General Education Criteria for a Advanced Composition course.

CRN	Type	Section	Time	Days	Location	Instructor
29921	lecture-	AA	03:30 PM - 04:50	TR	room 150 Animal	Parsons, C;

	discussion		PM		Sciences Laboratory	Pettigrew, J
29921: Advanced Composition course.						

209 Meat Animal Carcass Eval Credit: 3 hours.

Study principles and techniques used in meat animal and carcass evaluation along with factors that influence composition, meat quality and preparation. Students planning to enroll in ANSC 310 and ANSC 312 should take ANSC 209 in their sophomore year. Prerequisite: ANSC 100.

CRN	Type	Section	Time	Days	Location	Instructor
29926	laboratory	AB1	01:00 PM - 02:50 PM	MW	room 120 Meat Science Laboratory	Carr, T
29927	lecture-discussion	AE1	01:00 PM - 01:50 PM	F	room 120 Meat Science Laboratory	Carr, T

211 Breeding Animal Evaluation Credit: 3 hours.

Application of current scientific tools, methods, and performance programs available to livestock breeders for improving beef cattle, swine, sheep, and horses; emphasis on the changing nature of modern breeds of livestock as influenced by selection, economics, and consumer and market trends. Sophomore standing; credit or concurrent registration in ANSC 209.

CRN	Type	Section	Time	Days	Location	Instructor
29928	laboratory	AB1	03:00 PM - 04:50 PM	MW	room ARENA Stock Pavilion	Parrett, D
29929	lecture	AL1	03:00 PM - 03:50 PM	F	room ARENA Stock Pavilion	Parrett, D

213 Beef and Swine Management Credit: 3 hours.

Examines basic principles of beef cattle and swine management for students other than animal sciences majors. Credit is not given for both ANSC 213 and ANSC 401 or ANSC 403. Prerequisite: ANSC 100.

CRN	Type	Section	Time	Days	Location	Instructor
29956	lecture	A	01:00 PM - 02:20 PM	TR	room 107 Animal Sciences Laboratory	Ellis, M; Berger, L

215 Humane Edu With Companion Anim Credit: 3 hours.

Course explores humane education as it pertains to companion animals, primarily cats and dogs. The historical aspects of domestication and humane education as well as modern-day relationships between humans and companion animals are addressed. Pet over population and resulting animal shelter issues are discussed in detail.

Selection, behavior, and care of companion animals are studied with a focus on promoting the human-companion animal bond, behavioral wellness, and safety. Animal protection laws, animal control laws, and the connection between animal cruelty and violent behavior toward humans are also examined. Prerequisite: Sophomore standing.

This course satisfies the General Education Criteria for a Advanced Composition course.

CRN	Type	Section	Time	Days	Location	Instructor
29934	laboratory	A	11:00 AM - 12:20 PM	R	room 292 Animal Sciences Laboratory	Lutgen, A
29934: Advanced Composition course.						
	lecture-discussion	A	11:00 AM - 12:20 PM	T	room 131 Animal Sciences Laboratory	Lutgen, A
: Advanced Composition course.						

293 Internship Off Campus Credit: 1 to 4 hours.

Supervised, off-campus learning experience in an animal-related enterprise. May be repeated in the same or subsequent terms to a maximum of ten hours. Prerequisite: good academic standing; ANSC 100.

CRN	Type	Section	Time	Days	Location	Instructor
10235	independent study		ARRANGED			
10235: Instructor Approval Required						

294 Intern On Campus Practical Exp Credit: 1 to 5 hours.

Supervised, on-campus learning experience associated with subject matter specific to animal sciences. Approved for both S/U and letter grading. May be repeated in the same or subsequent terms to a maximum of ten hours. Prerequisite: good academic standing; ANSC 100.

CRN	Type	Section	Time	Days	Location	Instructor
10242	independent study		ARRANGED			
10242: Instructor Approval Required						
29958	laboratory	QQ	ARRANGED			Cobb, A
29958: Section QQ: Quadrathlon						

295 UG Research or Thesis Credit: 1 to 5 hours.

Individual research in animal sciences. May be repeated in the same or subsequent terms to a maximum of ten hours. Prerequisite: Minimum GPA of 2.5; not open to students on probation; consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
10246	independent study		ARRANGED			
10246: Instructor Approval Required						

298 Undergraduate Seminar Credit: 1 hours.

Presentations and discussion of employment opportunities, departmental research activities, and topics relevant to animal agriculture. Prerequisite: Sophomore standing.

CRN	Type	Section	Time	Days	Location	Instructor
29959	lecture	A	12:00 PM - 12:50 PM	R	room 131 Animal Sciences Laboratory	Clark, J

299 Animal Mgt Field Studies Credit: 1 or 2 hours.

Field studies of farms and service industries; discusses and demonstrates management practices on commercial farms. Trip normally taken during spring break, see Class Schedule for approximate cost.

Additional Lab Fee of \$110-200 may be required.

CRN	Type	Section	Time	Days	Location	Instructor
29961	lecture-discussion	A	ARRANGED			Knox, R; Kesler, D
29961: 1 hoursSection A: Food Animal - Registration is by Application only and by Instructor Approval. Contact Instructor for the application and any questions.						
29962	lecture-discussion	C	ARRANGED			McCoy, G
29962: 1 hoursSection: C Dairy Management						

306 Equine Science Credit: 3 hours.

Understand and apply current scientific research and principles of equine science to intensive horse production. An in-depth approach to equine reproductive physiology, nutrition, anatomy and exercise physiology will be followed using a combined lecture and laboratory format. Emphasis on current research and hands-on techniques. Prerequisite: ANSC 206, ANSC 331 and ANSC 362, or consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
29971	laboratory	AB1	09:00 AM - 10:50 AM	T	room 242 Agricultural Engr Sciences Bld	Kline, K; Hagstrom, D
29971: Students will meet at the U of I Horse Farms.						
29974	laboratory	AB2	09:00 AM - 10:50	W	room 242	Kline, K; Hagstrom, D

			AM		Agricultural Engr Sciences Bld	
29974: Class will meet at the U of I Horse Farms.						
29972	lecture	AL1	01:00 PM - 01:50 PM	TR	room 131 Animal Sciences Laboratory	Kline, K; Hagstrom, D

325 **Principles of Animal Nutrition** Credit: 3 hours.

Principles of animal nutrition and their application to veterinary practice; designed primarily for students in veterinary medicine. Lecture and laboratory. Credit is not given for both ANSC 325 and ANSC 321. Prerequisite: MCB 350, or equivalent.

CRN	Type	Section	Time	Days	Location	Instructor
29981	laboratory	AB1	10:00 AM - 11:50 AM	R	room 2251 Vet Med Basic Sciences Bldg	Troutt, H; Swanson, K
29982	lecture	AL1	11:00 AM - 11:50 AM	TW	room 2251 Vet Med Basic Sciences Bldg	Troutt, H; Swanson, K

331 **Biology of Reproduction** Credit: 4 hours.

Study of the basic principles of reproduction, lactation, growth, and hormone regulation of domestic and non-domestic animals as well as humans, including biotechnological methods of reproductive control, manipulation, performance enhancement of lactation and growth, and disease control. Same as IB 331. Prerequisite: Sophomore standing; IB 104 or one introductory level biology course.

This course satisfies the General Education Criteria for a Life Sciences course.

Additional Lab Fee Required. DISSECTION REQUIRED: Alternatives available for all assignments.

CRN	Type	Section	Time	Days	Location	Instructor
29935	laboratory	AB1	10:00 AM - 11:50 AM	M	room 67 Animal Sciences Laboratory	Kesler, D; Miller, D
29935: Life Sciences course. DISSECTION REQUIRED: ALTERNATIVES AVAILABLE FOR ALL ASSIGNMENTS						
29937	laboratory	AB2	01:00 PM - 02:50 PM	M	room 67 Animal Sciences Laboratory	Kesler, D; Miller, D
29937: Life Sciences course. DISSECTION REQUIRED: ALTERNATIVES AVAILABLE FOR ALL ASSIGNMENTS						
29938	laboratory	AB3	03:00 PM - 04:50 PM	M	room 67 Animal Sciences Laboratory	Kesler, D; Miller, D
29938: Life Sciences course. DISSECTION REQUIRED: ALTERNATIVES AVAILABLE FOR ALL ASSIGNMENTS						

29940	laboratory	AB4	10:00 AM - 11:50 AM	T	room 67 Animal Sciences Laboratory	Kesler, D; Miller, D
29940: Life Sciences course. DISSECTION REQUIRED: ALTERNATIVES AVAILABLE FOR ALL ASSIGNMENTS						
29941	laboratory	AB5	01:00 PM - 02:50 PM	T	room 67 Animal Sciences Laboratory	Kesler, D; Miller, D
29941: Life Sciences course. DISSECTION REQUIRED: ALTERNATIVES AVAILABLE FOR ALL ASSIGNMENTS						
29942	laboratory	AB6	03:00 PM - 04:50 PM	T	room 67 Animal Sciences Laboratory	Kesler, D; Miller, D
29942: Life Sciences course. DISSECTION REQUIRED: ALTERNATIVES AVAILABLE FOR ALL ASSIGNMENTS						
29943	lecture	AL1	05:00 PM - 06:15 PM	MW	room 150 Animal Sciences Laboratory	Hurley, W; Kesler, D; Miller, D
29943: Life Sciences course. DISSECTION REQUIRED: ALTERNATIVES AVAILABLE FOR ALL ASSIGNMENTS						
40437	laboratory	BB1	ARRANGED			Kesler, D
40437: Camp Honors/Chanc Schol, and Life Sciences course. This section for Chancellor's Scholars only; other students may only enroll with consent of instructor and the Campus Honors Program.						
40429	lecture	BL1	12:00 PM - 01:20 PM	MW	room 212 1205 W Oregon	Kesler, D
40429: Camp Honors/Chanc Schol, and Life Sciences course. Sections BL1 and BB1 are for Chancellor's Scholars only. Others may only enroll with consent of instructor and the Campus Honors Program.						

340 *Plant and Animal Genetics* Credit: 4 hours.
Same as CPSC 352, and NRES 352. See CPSC 352.

Students must register for one lab and one lecture section.

CRN	Type	Section	Time	Days	Location	Instructor
31504	laboratory	AB1	01:00 PM - 02:50 PM	T	room 393 Bevier Hall	Diers, B; Beever, J
31505	laboratory	AB2	03:00 PM - 04:50 PM	T	room 393 Bevier Hall	Diers, B; Beever, J
31506	laboratory	AB3	08:00 AM - 09:50 AM	T	room M5 Turner Hall	Diers, B; Beever, J
31508	lecture	AL1	02:00 PM - 02:50 PM	MWF	room W109 Turner Hall	Diers, B; Beever, J

396 UG Honors Research or Thesis Credit: 1 to 5 hours.

Independent study, under the supervision of a faculty member, on a problem of appropriate scope and character that culminates in writing a thesis. Intended primarily for honors students who plan on conducting research or pursuing graduate study. Thesis projects must be supervised by a faculty member and reviewed by a departmental committee. Students must present a satisfactory thesis to receive credit. May be repeated in the same or subsequent terms to a maximum of ten hours. Prerequisite: Junior standing, minimum GPA of 3.4; consent of a faculty member.

CRN	Type	Section	Time	Days	Location	Instructor
10251	independent study		ARRANGED			
10251: Instructor Approval Required						

402 Sheep Production Credit: 3 hours.

Study of management, nutrition, reproduction, genetics, marketing, economics, housing, health and production record programs as they apply to sheep production. History of the U. S. sheep industry will be explored along with a study of wool production, marketing and processing. Prerequisite: ANSC 321 or equivalent.

CRN	Type	Section	Time	Days	Location	Instructor
29963	lecture-discussion	1	09:00 AM - 09:50 AM	R	room 131 Animal Sciences Laboratory	Cobb, A
	lecture-discussion	1	09:00 AM - 10:50 AM	T	room 131 Animal Sciences Laboratory	Cobb, A

403 Pork Production Credit: 3 hours.

Applies science and technology to the selection, breeding, feeding, housing and management of swine in a production enterprise; emphasizes use of research findings in decision making. Credit is not given for both ANSC 213 and ANSC 403. Prerequisite: ANSC 340 ANSC 321, and ANSC 467; and ANSC 331 or ANSC 431.

CRN	Type	Section	Time	Days	Location	Instructor
29964	lecture-discussion	A	08:00 AM - 08:50 AM	MWF	room 131 Animal Sciences Laboratory	Ellis, M

404 Poultry Science Credit: 3 or 4 hours.

Basic principles of genetics, physiology, nutrition, and health of avian species; the application of science and technology in solving the breeding, nutrition, disease, housing, and other management problems encountered in commercial egg and poultry meat production. Undergraduate and graduate students must complete research project to obtain 4 hours.

CRN	Type	Section	Time	Days	Location	Instructor
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29967	lecture-discussion	1	09:00 AM - 09:50 AM	MWF	room 107 Animal Sciences Laboratory	Parsons, C; Koelkebeck, K
29967: 3 hours						
29968	lecture-discussion	2	09:00 AM - 09:50 AM	MWF	room 107 Animal Sciences Laboratory	Parsons, C; Koelkebeck, K
29968: 4 hours						

409 Meat Science Credit: 4 hours.

Fundamental biological principles that influence growth, composition, processing, preservation, and quality of meat and meat products. Prerequisite: CHEM 104 and CHEM 105; MCB 100 and MCB 101, or MCB 300 and MCB 301.

CRN	Type	Section	Time	Days	Location	Instructor
29977	laboratory	AB1	01:00 PM - 02:50 PM	T	room 139 Meat Science Laboratory	McKeith, F; Killefer, J
29979	lecture-discussion	AE1	10:00 AM - 10:50 AM	MWF	room 120 Meat Science Laboratory	McKeith, F; Killefer, J

422 Companion Animal Nutrition Credit: 3 hours.

Digestive physiology and basic nutritional considerations of companion animals including canine, feline, laboratory animals, and some wildlife species. Nutritional idiosyncrasies and the importance of nutrition in various physiological states will be emphasized. Current research findings will be used to illustrate development/refinement of nutritional principles applied to these species. Prerequisite: ANSC 321 or equivalent.

CRN	Type	Section	Time	Days	Location	Instructor
39489	lecture	A	09:00 AM - 09:50 AM	MWF	room 131 Animal Sciences Laboratory	Swanson, K

423 Advanced Dairy Nutrition Credit: 2 hours.

All aspects of dairy cattle nutrition will be discussed including nutrients, phase feeding (milk curve analysis, dry matter intake, and body weight loss), dry and transition cow programs, forage feeding systems, feed delivery approaches, metabolic disorders related to nutrition, and application of various dairy feeding guides. Prerequisites: ANSC 201 or equivalent, or consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
41454	online	XM	07:00 PM - 08:00 PM	M		Hutjens, M

41454: OnlineMeets 22-Jan-07 - 02-Apr-07.AO Tuition 261, AO Tuition 237, AO Fees 41, and AO Fees 41.00

dollars.

41454: Academic Outreach restrictions and assessments apply, see <http://www.outreach.uiuc.edu>.

438 *Lactation Biology* Credit: 4 hours.

Examines the structural and functional development of the mammary gland, cell biology, and control of milk synthesis, and composition and biochemistry of milk. Compares and analyzes the physiological processes of lactation in mammals. Prerequisite: ANSC 331.

CRN	Type	Section	Time	Days	Location	Instructor
29975	discussion-recitation	AD1	01:00 PM - 01:50 PM	F	room 131 Animal Sciences Laboratory	Hurley, W
29976	lecture-discussion	AE1	01:00 PM - 02:50 PM	MW	room 131 Animal Sciences Laboratory	Hurley, W

440 *Applied Statistical Methods I* Credit: 4 hours.

Same as ABE 440, CPSC 440, FSHN 440, and NRES 440. See CPSC 440.

CRN	Type	Section	Time	Days	Location	Instructor
31593	laboratory	AB1	01:00 PM - 02:50 PM	T	room N120 Turner Hall	Bollero, G
31595	laboratory	AB2	03:00 PM - 04:50 PM	T	room N120 Turner Hall	Bollero, G
31597	laboratory	AB3	05:00 PM - 06:50 PM	T	room N120 Turner Hall	Bollero, G
31603	lecture	AL1	08:00 AM - 09:20 AM	TR	room 150 Animal Sciences Laboratory	Bollero, G

441 *Human Genetics* Credit: 3 or 4 hours.

Same as ANTH 441. See ANTH 441.

CRN	Type	Section	Time	Days	Location	Instructor
44655	lecture-discussion	1G	11:00 AM - 11:50 AM	MWF	room 209A Davenport Hall	Roseman, C
44655: 4 hours						
44656	lecture-discussion	1U	11:00 AM - 11:50 AM	MWF	room 209A Davenport Hall	Roseman, C

44656: 3 hours

444 Applied Animal Genetics Credit: 3 hours.

Principles of heredity and their application to the problems of animal improvement. Prerequisite: CPSC 352 or equivalent.

CRN	Type	Section	Time	Days	Location	Instructor
29969	lecture-discussion	1	10:00 AM - 10:50 AM	MWF	room 131 Animal Sciences Laboratory	Shanks, R

29969: Prerequisite: ANSC 340 (same as CPSC 352) or equivalent.

448 Math Modeling in Life Sciences Credit: 3 or 4 hours.

Introduction to deterministic and stochastic mathematical models for the life sciences, statistical methods for fitting and testing models, and computer simulation programs. Applications to populations, processes, and products of animals, plants, and humans. Same as IB 487, and STAT 458. Students desiring 4 hours credit do additional work in some area of mathematical modeling in the life sciences. Prerequisite: IB 104; a course in calculus, and a course in computer sciences; or consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
29984	laboratory	A	11:00 AM - 12:50 PM	F	ACES Lib, Info and Alum Ctr	Murphy, M
	lecture	A	11:00 AM - 11:50 AM	MW	ACES Lib, Info and Alum Ctr	Murphy, M

450 Comparative Immunobiology Credit: 4 hours.

Advanced concepts of immunophysiology and immunogenetics. Immunophysiology with an emphasis on immune-neuroendocrine interactions. The molecular and cellular basis of self-nonsel self recognition with an emphasis on the major histocompatibility complex in vertebrates and innate immunity in both vertebrates and invertebrates. The mucosal immune system, which requires a complex interplay between innate and acquired immunity to protect mucosal surfaces exposed to the environment. A working knowledge of genetics and cellular and molecular biology is recommended. Same as MCB 442, and PATH 510.

CRN	Type	Section	Time	Days	Location	Instructor
39603	lecture-discussion	A	01:00 PM - 02:20 PM	TR	room 150 Animal Sciences Laboratory	Gaskins, H; Kelley, K

451 Microbes and the Anim Indust Credit: 3 hours.

Fundamental aspects of the ecology of microorganisms and their biochemical activities related to the degradation of organic matter with emphasis on the gastrointestinal tract of production animals. Prerequisite: MCB 350 or MCB 352 and MCB 353, and MCB 100 or MCB 300 or MCB 424, or consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
39808	lecture-discussion	1	09:00 AM - 10:20 AM	TR	room 404 Animal Sciences Laboratory	Cann, I; Yannarell, A

456 **Lab Animal Science 2** Credit: 1 hours.
Same as VCM 656. See VCM 656.

CRN	Type	Section	Time	Days	Location	Instructor
45461	lecture	G	02:00 PM - 02:50 PM	R	room 2258 Vet Med Basic Sciences Bldg	Peper, R
37692	lecture	U	02:00 PM - 02:50 PM	R	room 2258 Vet Med Basic Sciences Bldg	Peper, R

466 **Animal Behavior** Credit: 3 hours.
Same as ANTH 442, and IB 429. See IB 429.

CRN	Type	Section	Time	Days	Location	Instructor
34663	lecture	G	03:00 PM - 03:50 PM	MWF	room 116 Roger Adams Laboratory	Suarez, A

499 **Seminar** Credit: 1 to 4 hours.
Group discussion or an experimental course on a special topic in animal sciences. May be repeated.

CRN	Type	Section	Time	Days	Location	Instructor
10254	independent study		ARRANGED			
10254: Instructor Approval Required						
47618	online	CT2	ARRANGED			Wilson, D; Hutjens, M; Reid, E
47618: 3 hours Financial Proj Mgmt in Agricul Academic Outreach Aprvl Reqd Academic Outreach restrictions and assessments apply, see http://www.outreach.uiuc.edu . Online Meets 16-Jan-07 - 30-Apr-07. Miscellaneous Fees 125, and Miscellaneous Fees 125.00 dollars.						
46879	online	OL	06:30 PM - 08:30 PM	R		Tracy, B; Hutjens, M
46879: 3 hours Forage Crops and Grasslands Academic Outreach restrictions and assessments apply, see http://www.outreach.uiuc.edu . Class will be delivered via Elluminate and other materials. Class will not meet the						

week of spring break (3/22). Some lectures will be shorter than others and will not cover the entire 2 hour time allotted. A syllabus will be provided to the student with further details as to the lecture length each week. Course will be comprised of online lecture, additional readings and downloads of materials from the internet and homework assignments. High speed internet access is very helpful for this course. Students should contact the following email address or phone number to order their \$35 discs for this course: ansci-it@uiuc.edu or 217-333-8276. OnlineMeets 11-Jan-07 - 20-Apr-07. AO Tuition 261, AO Tuition 237, AO Fees 41, and AO Fees 41.00 dollars.

41456	online	XM	07:00 PM - 08:00 PM	T		Wallace, R; Hutjens, M
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41456: 2 hours Milk Sec, Mastitis and Quality Academic Outreach restrictions and assessments apply, see <http://www.outreach.uiuc.edu>. OnlineMeets 16-Jan-07 - 27-Mar-07. AO Tuition 261, AO Tuition 237, AO Fees 41, and AO Fees 41.00 dollars.

520 Protein and Energy Nutrition Credit: 3 hours.

Physiological aspects of protein and amino acids, fats and fatty acids, and carbohydrates as applied to higher animals; includes classification, digestion, absorption, utilization, metabolism, and dietary deficiencies and excesses. Prerequisite: MCB 350 or equivalent and a course in nutrition.

CRN	Type	Section	Time	Days	Location	Instructor
29990	lecture	A	11:00 AM - 11:50 AM	MWF	room 107 Animal Sciences Laboratory	Fahey, G; Novakofski, J; Drackley, J; Garlick, P

521 Regulation of Metabolism Credit: 4 hours.

Same as FSHN 511, and NUTR 511. See NUTR 511.

CRN	Type	Section	Time	Days	Location	Instructor
35388	discussion-recitation	AD1	10:00 AM - 10:50 AM	F	room 292 Animal Sciences Laboratory	Layman, D; Nakamura, M; Loor, J
35391	lecture	AL1	10:00 AM - 10:50 AM	MTWR	room 292 Animal Sciences Laboratory	Layman, D; Nakamura, M; Loor, J

525 Topics in Nutrition Research Credit: 1 hours.

Same as FSHN 510, and NUTR 510. See NUTR 510.

CRN	Type	Section	Time	Days	Location	Instructor
39867	lecture	A	12:00 PM - 01:20 PM	TR	room 132 Bevier Hall	Pan, Y

39867: Nutr Signal Pathways & Cancer Meets 16-Jan-07 - 13-Feb-07.

46807	lecture	B	12:00 PM - 01:20 PM	TR	room 132 Bevier Hall	Chen, H
46807: Epigenetics of Human Disease Meets 15-Feb-07 - 15-Mar-07.						

530 *Advanced Endocrinology* Credit: 2 hours.
Same as MCB 512, and VB 512. See MCB 512.

CRN	Type	Section	Time	Days	Location	Instructor
37733	discussion-recitation	1	05:00 PM - 06:20 PM	T	room ARR Vet Med Basic Sciences Bldg	Flaws, J

531 *Adv Reproductive Endocrinology* Credit: 3 hours.

The reproductive endocrinology of domestic and laboratory animals. Topics include neuroendocrinology; chemistry, metabolism, and action of hormones, regulation of gonadal function, endocrine changes during puberty, aging, pregnancy, and parturition, external factors affecting reproduction, infertility, and hormones and behavior. Same as MCB 531, and VB 531. Prerequisite: ANSC 431, MCB 413, MCB 350, or equivalent.

CRN	Type	Section	Time	Days	Location	Instructor
29991	lecture	A	11:00 AM - 11:50 AM	MWF	room 292 Animal Sciences Laboratory	Bahr, J

533 *Repro Physiology Lab Methods* Credit: 1 to 3 hours.

Laboratory methods used in reproductive physiology studies, such as blood sampling, large animal surgery, collection of tissues and gametes, embryo recovery, in vitro fertilization, tissue culture, hormone measurements, and directed individual research problems. Same as MCB 533, and VB 533. Prerequisite: Consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
45294	laboratory-discussion	CNG	ARRANGED			Graves, C; Nowak, R
45294: 2 hours Mouse Embryo Development/IVF. Credit for 2 hours only. Instructor Approval.						

542 *Applied Bioinformatics* Credit: 4 hours.

Introduction to theoretical and applied aspects of bioinformatics. Topics include genomic and proteomic databases, sequence alignment and search algorithms (e.g., BLAST, FASTA, CLUSTAL W), predictive methods in DNA sequence, machine-learning techniques (e.g., Hidden Markov Models) and data mining, biomolecular structure and its prediction, molecular evolution and phylogenetic reconstruction, structural genomics and phylogenomics. Concepts are complemented with hands-on experience with computational biology databases and bioinformatic tools. Same as CPSC 569. Approved for both S/U and letter grading. Prerequisite: Graduate level status or consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
30013	lecture-discussion	A	10:00 AM - 11:20 AM	TR	room N120 Turner Hall	Rodriguez-Zas, S; Caetano-Anolles, G

545 Statistical Genomics Credit: 3 hours.

This course presents current statistical approaches to analyze DNA microarray, quantitative trait loci and proteomic data and understand the genetic architecture of complex phenotypes including health, performance and behavior. DNA microarray studies measure the expression of thousands of genes simultaneously. Quantitative trait loci (QTL) mapping studies detect associations between genomic regions and phenotypes. Results from these and proteomic studies help identify and quantify genes, regulators and products leading to drug, biotechnology and scientific discoveries. Prerequisite: Graduate level course in Statistics and graduate level course in Molecular Biology.

CRN	Type	Section	Time	Days	Location	Instructor
46407	lecture-discussion	A	10:00 AM - 11:20 AM	WF	room 22 ACES Lib, Info and Alum Ctr	Rodriguez-Zas, S
46407: Meets 12-Mar-07 - 02-May-07.						

590 Animal Sciences Seminar Credit: 0 to 2 hours.

Discussions of current research and literature. Registration for 0 to 2 hours each term is expected for animal sciences graduate students. Approved for both letter and S/U grading. May be repeated to a maximum of 2 hours for Masters students and 4 hours for Ph.D. students.

Students enrolled for 0 credit will received S/U grades; those enrolled for 1 hour will received letter grades.

CRN	Type	Section	Time	Days	Location	Instructor
30000	lecture-discussion	A	03:00 PM - 03:50 PM	T	room 396 Animal Sciences Laboratory	Shanks, R
30000: Section A Topic: Animal Breeding and Genetics. Zero credit only with S/U grading.						
41751	lecture-discussion	A1	03:00 PM - 03:50 PM	T	room 396 Animal Sciences Laboratory	Shanks, R
41751: 1 hoursSection A1 Topic: Animal Breeding and Genetics. One hour credit. Letter grade.						
44582	lecture-discussion	A2	03:00 PM - 03:50 PM	T	room 396 Animal Sciences Laboratory	Shanks, R
44582: 2 hours						
30001	lecture-discussion	B	ARRANGED			Koelkebeck, K
30001: Section B Topic: Behavior. Zero credit only. S/U grading.						
41752	lecture-discussion	B1	ARRANGED			Koelkebeck, K

41752: 1 hoursSection B1 Topic: Behavior. One credit hour. Letter grade.						
44583	lecture-discussion	B2	ARRANGED			Koelkebeck, K
44583: 2 hoursSection B2 Topic: Behavior. Two credit hours. Letter Grade.						
30002	lecture-discussion	C	ARRANGED			Koelkebeck, K
30002: Section C Topic: Environmental Management. Zero Credit. S/U Grading.						
41755	lecture-discussion	C1	ARRANGED			Koelkebeck, K
41755: 1 hoursSection C1 Topic: Environmental Management. One hour credit. Letter grading.						
44585	lecture-discussion	C2	ARRANGED			Koelkebeck, K
44585: 2 hoursSection C2 Topic: Environmental Management. Two credit hours. Letter grading.						
30003	lecture-discussion	D	12:00 PM - 12:50 PM	F	room 208 Meat Science Laboratory	McKeith, F; Killefer, J
30003: Section D1 Topic: Meat Science and Muscle Biology. Zero credit only. S/U grading.						
41783	lecture-discussion	D1	12:00 PM - 12:50 PM	F	room 208 Meat Science Laboratory	McKeith, F; Killefer, J
41783: 1 hoursSection D1 Topic: Meat Science and Muscle Biology. One credit hour. Letter grading.						
44586	lecture-discussion	D2	12:00 PM - 12:50 PM	F	room 208 Meat Science Laboratory	McKeith, F; Killefer, J
44586: 2 hoursSection D2 Topic: Meat Science and Muscle Biology. Two credit hours. Letter grading.						
30004	lecture-discussion	E	ARRANGED			Loor, J
30004: Section E Topic: Non-Ruminant Nutrition. Zero credit only. S/U grading.						
41784	lecture-discussion	E1	ARRANGED			Loor, J
41784: 1 hoursSection E1 Topic: Non-Ruminant Nutrition. One hour credit. Letter grading.						
44588	lecture-discussion	E2	ARRANGED			Loor, J
44588: 2 hoursSection E2 Topic: Non-Ruminant Nutrition. Two credit hours. Letter grading.						
30005	lecture-discussion	F	04:00 PM - 05:20 PM	W		Sherwood, O
30005: Section F Topic: Reproductive Physiology. Zero credit hour. S/U grading.						
41786	lecture-discussion	F1	04:00 PM - 05:20 PM	W		Sherwood, O

41786: 1 hoursSection F1 Topic: Reproductive Physiology. One credit hour. Letter grading.						
44592	lecture-discussion	F2	04:00 PM - 05:20 PM	W		Sherwood, O
44592: 2 hoursSection F2 Topic: Reproductive Physiology. Two credit hours. Letter grading.						
30006	lecture-discussion	G	12:00 PM - 12:50 PM	W	room 131 Animal Sciences Laboratory	Loor, J
30006: Section G Topic: Ruminant Nutrition. Zero credit hours. S/U grading.						
41787	lecture-discussion	G1	12:00 PM - 12:50 PM	W	room 131 Animal Sciences Laboratory	Loor, J
41787: 1 hoursSection G1 Topic: Ruminant Nutrition. One credit hour. Letter grading.						
44593	lecture-discussion	G2	12:00 PM - 12:50 PM	W	room 131 Animal Sciences Laboratory	Loor, J
44593: 2 hoursSection G2 Topic: Ruminant Nutrition. Two credit hours. Letter grading.						
30007	lecture-discussion	H	04:00 PM - 04:50 PM	T	room 404 Animal Sciences Laboratory	White, B
30007: Section H Topic: Microbiology. Zero Credit only. S/U grading.						
41788	lecture-discussion	H1	04:00 PM - 04:50 PM	T	room 404 Animal Sciences Laboratory	White, B
41788: 1 hoursSection H1 Topic: Microbiology. One credit hour. Letter grading.						
44596	lecture-discussion	H2	04:00 PM - 04:50 PM	T	room 404 Animal Sciences Laboratory	White, B
44596: 2 hoursSection H2 Topic: Microbiology. Two credit hours. Letter grading.						
30008	lecture-discussion	I	04:00 PM - 04:50 PM	T		Johnson, R
30008: Section I Topic: Immunobiology. Zero credit only. S/U grading.						
41789	lecture-discussion	I1	04:00 PM - 04:50 PM	T		Johnson, R
41789: 1 hoursSection I1 Topic: Immunobiology. One credit hour. Letter grading.						
44597	lecture-discussion	I2	04:00 PM - 04:50 PM	T		Johnson, R
44597: 2 hours						
30011	lecture-discussion	L	ARRANGED			Gaskins, H; Schook, L
41790	lecture-discussion	L1	ARRANGED			Gaskins, H; Schook, L

41790: 1 hours						
44598	lecture-discussion	L2	ARRANGED			Gaskins, H; Schook, L
44598: 2 hours						
30012	lecture-discussion	M	ARRANGED		Animal Sciences Laboratory	Wheeler, M
30012: Section M Topic: Developmental Biology. Zero credit only. S/U grading.						
41791	lecture-discussion	M1	ARRANGED		Animal Sciences Laboratory	Wheeler, M
41791: 1 hours Section M1 Topic: Developmental Biology. One credit hour. Letter grading.						
44601	lecture-discussion	M2	ARRANGED		Animal Sciences Laboratory	Wheeler, M
44601: 2 hours Section M2 Topic: Developmental Biology. Two credit hours. Letter grading.						

592 Adv Topics in Animal Science Credit: 1 to 4 hours.

Selected topics associated with teaching, research, and production related to the animal industry. Prerequisite: Consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
44889	online	JJ1	ARRANGED			Johnson, J
44889: 3 hours Measuring Behavior and Welfare.						
45091	lecture-discussion	LBS	04:00 PM - 05:50 PM	T	room 138 E R Madigan Laboratory	Schook, L
45091: 3 hours Topic: Creating Value in the Life Sciences: Defining Roles and Roadmaps for the Entrepreneurial. Enrollment limited to Graduate and Senior Undergraduate Students.						

593 Res Studies in Animal Sciences Credit: 1 to 4 hours.

Directed and supervised study of selected research topics in Animal Sciences. Approved for both S/U and letter grading. May be repeated to a maximum of 4 hours. Prerequisite: Consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
10258	independent study		ARRANGED			
10258: Instructor Approval Required						

599 Thesis Research Credit: 0 to 16 hours.

May be repeated. Approved for S/U grading only.

CRN	Type	Section	Time	Days	Location	Instructor
10264	independent study		ARRANGED			
10264: Instructor Approval Required						