

**College of Agricultural and Life Sciences
Proposed Catalog Changes
Effective Summer 2018**

Agricultural Economics and Rural Sociology

1. Add the following course:

AgEc 468 Risk Management: Commodity Merchandising (1 cr)

Fundamental functions of a commodity merchandiser within the agricultural food supply chain, including risk management through basis trading and margin management of a hedged marketing position, are learned through utilizing actual cash grain ownership and exchange-traded futures. One credit lab also engages students directly with regional grain trade, commodity brokers and allied industries.

Available via distance: No

Geographical Area: Moscow

Rationale: In response to an increased interest in risk management by stakeholders and students, AERS has built-up efforts to offer courses in this area and extend working relations with the Barker Capital Management program in the College of Business and Economics. This course is intended to provide an experiential learning opportunity for students interested in the topic. Fundamental functions of a commodity merchandiser will be covered and practice, with guidance from the instructor, will be made through a funded position. Preliminary results from offering this class through a special topics course within the agricultural risk management curriculum indicate strong student interest. Current AERS faculty and classroom resources within the Barker Trading room at the College of Business and Economics will be utilized to accommodate instruction of the course.

2. Change the following course:

AgEc 478 Advanced Agribusiness Management (3 cr)

Gen Ed: Senior Experience

The capstone class for Agribusiness and Agricultural Economic students. Economics and agribusiness theory is put into practice through decision cases ~~and agribusiness simulation games~~. Team building, written, and oral presentation skills are stressed. [The course includes a one-hour lab to facilitate group work and instructor-group interaction.](#) (Spring Only)

Prereq: AgEc 301, AgEc 302, Acct 201, Acct 202, and Senior standing; or permission

Available via distance: No

Geographical Area: Moscow

Rationale: Since Spring 2008, undergraduates in AERS have asked for a lab to help manage the capstone course (AGEC 478), an experiential learning opportunity with application to real problems presented to the class by real businesses who partner with the course for a semester. The class requires extensive group work and numerous meetings between faculty and student teams. The addition of a lab offers an opportunity to facilitate learning of the concepts and completion of the project through a coordinated meeting time for the instructor and group members assigned to a project.

Animal and Veterinary Science

1. Change the following course:

AVS 450 Issues in Animal Agriculture (~~1~~2 cr)

Gen Ed: Senior Experience

The capstone experience for seniors in AVS; students will present information on selected topics and propose solution to current problems; emphasis on problem solving using integration of information across disciplines.

Prereq: Senior standing

Available via distance: No

Geographical Area: Moscow

Rationale: There will be an additional hour of class time scheduled each week to support the additional credit. By adding the additional credit to allow for more class time, it will provide students a greater opportunity to engage in discussion of presented topics and allow students to have more time to present and discuss issues as a class. This will not require an additional work load for the instructor – course requirements will not change.

2. Make the following curricular changes to the **Major in Animal and Veterinary Science—Production Option (B.S.A.V.S.):**

Life Science Elective (3 cr):

300 or 400 level Life Science Elective 3 cr

Chosen from BIOL, ENT, FISH, PLSC, REM, SOIL, or WLF.

AGEC 278	Farm and Agribusiness Management	4 cr
AGEC 289	Agricultural Markets and Prices	3 cr
AVS 306	Feeds and Ration Formulation	4 cr
AVS 330	Genetics of Livestock Improvement	3 cr
AVS 363	Animal Products for Human Consumption	4 cr
AVS 411	Ruminant Nutrition	3 cr
AVS 450	Issues in Animal Agriculture	1 cr
AVS 471	Animal Disease Management	3 cr
CHEM 275	Carbon Compounds	3 cr
ECON 202	Principles of Microeconomics	3 cr
REM 221	Principles of Ecology	3 cr
<u>REM 151</u>	<u>Rangeland Principles</u>	<u>3 cr</u>

One of the following (3-4 cr):

AVS 222	Animal Reproduction and Breeding	3 cr
AVS 452	Physiology of Reproduction	4 cr

One of the following (4 cr):

CHEM 101	Introduction to Chemistry I	4 cr
CHEM 111	Principles of Chemistry I	4 cr

One of the following (3 cr):

BIOL 154	Introductory Microbiology	3 cr
BIOL 250	General Microbiology	3 cr

One of the following (1-2 cr):

BIOL 155	Introductory Microbiology Laboratory	1 cr
BIOL 255	General Microbiology Lab	2 cr

~~One of the following (2-3 cr):~~

REM 151	Rangeland Principles	3 cr
REM 456	Integrated Rangeland Management	3 cr

One of the following (3 cr):

AVS 472	Dairy Cattle Management	3 cr
AVS 474	Beef Cattle Science	3 cr

One of the following (3 cr):

AVS 466	Equine Science and Management	3 cr
AVS 468	Companion Animal Biology & Management	3 cr
AVS 472	Dairy Cattle Management	3 cr
AVS 474	Beef Cattle Science	3 cr
AVS 476	Sheep Science	3 cr

Courses to total 120 credits for this degree

Distance Education: 50% or more of curricular requirements cannot be completed via distance.

Geographical Area: Moscow

Rationale: We would like to delete the REM 221 requirement and add REM 151 as a requirement (this would include deleting REM 151 & REM 456 in a “One of the following” category (see above). Over past years, course content has changed in REM 221 and the course content in REM 151 is a more desirable requirement for educating our Production Option students and better prepares them to meet the needs of industry.

3. Make the following curricular changes to the **Major in Animal and Veterinary Science—Science/Preveterinary Option (B.S.A.V.S.):**

AVS 452	Physiology of Reproduction	4 cr
BIOL 114	Organisms and Environments	4 cr
CHEM 111	Principles of Chemistry I	4 cr
CHEM 112	Principles of Chemistry II	5 cr
CHEM 277	Organic Chemistry I	3 cr
CHEM 278	Organic Chemistry I: Lab	1 cr
PHYS 111	General Physics I	3 cr
PHYS 111L	General Physics I Lab	1 cr
PHYS 112	General Physics II	3 cr
PHYS 112L	General Physics II Lab	1 cr

One of the following (3-4 cr):

BIOL 310	Genetics	3 cr
	AND	
BIOL 315	Genetics Lab	1 cr
GENE 314	General Genetics	3 cr

One of the following (3 cr):

BIOL 154	Introductory Microbiology	3 cr
BIOL 250	General Microbiology	3 cr

One of the following (1-2 cr):

BIOL 155	Introductory Microbiology Laboratory	1 cr
BIOL 255	General Microbiology Lab	2 cr

One of the following (3-4 cr):

BIOL 300	Survey of Biochemistry	3 cr
BIOL 380	Biochemistry I	4 cr

First Year in Veterinary School (32 cr) or the following courses:

AVS 306	Feeds and Ration Formulation	4 cr
AVS 330	Genetics of Livestock Improvement	3 cr
AVS 450	Issues in Animal Agriculture	1 cr
AVS 471	Animal Disease Management	3 cr

~~Biology Elective (3 cr):~~

BIOL	BIOL Elective	3 cr
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One of the following (3 cr):

AVS 411	Ruminant Nutrition	3 cr
AVS 451	Endocrine Physiology	3 cr
AVS 463	Growth and Lactation	3 cr
AVS 475	Advanced Dairy Management	3 cr
BIOL 423	Comparative Vertebrate Physiology	3 cr
BIOL 432	Immunology	3 cr
BIOL 447	Virology	3 cr
BIOL 474	Principles of Developmental Biology	3 cr
BIOL 483	Mammalogy	3 cr
CHEM 372	Organic Chemistry II	3 cr

One of the following (3 cr):

AVS 472	Dairy Cattle Management	3 cr
AVS 474	Beef Cattle Science	3 cr

One of the following (3 cr):

AVS 466	Equine Science and Management	3 cr
AVS 468	Companion Animal Biology & Management	3 cr
AVS 472	Dairy Cattle Management	3 cr

AVS 474	Beef Cattle Science	3 cr
AVS 476	Sheep Science	3 cr

Courses to total 120 credits for this degree

Distance Education: 50% or more of curricular requirements cannot be completed via distance.

Geographical Area: Moscow

Rationale: In order to streamline our curriculum for AVS students enrolled in the Science/Preveterinary Option, we would like to delete the Biology Elective category as a requirement. It is redundant, as we also require an Animal Science Elective category that includes the option of enrolling in upper level biology courses.