

**College of Agricultural and Life Sciences
Proposed Catalog Changes
Effective Summer 2019**

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

1. Add the following course:

AGEC 490 Commodity Price Analysis

3 credits

Methods used to analyze factors affecting agricultural prices; analysis of agricultural prices and price movements with respect to time, space, and form; and examination of methods of price forecasting and techniques of time series analysis.

Prereq: STAT 251, AGEC 489 or FIN 466, AGEC 289

Available via distance: No

Geographical Area: Moscow

Rationale: To implement a course to accommodate student interest from both the College of Agricultural and Life Sciences and College of Business and Economics, provided as part of the requirements for the CBE Trading Certificate. The course provides a deeper understanding of underlying factors that help to determine commodity prices and the function of commodity price risk, developing tools to investigate them, as well as a first approximation to the relevant literature and frameworks.

2. Change the following course:

AGEC 433 Advanced Sales

3 credits

Building on principles of professional sales and sales management, students will learn additional processes, procedures and practices of sales professionals. Students will apply the old and new concepts when selling a product to be determined to actual customers.

Prereq: AGEC 333 ~~and MKTG 422.~~

Available via distance: No

Geographical Area: Moscow

Rationale: The course was originally proposed as a package for a new minor in Professional Sales. That effort was redirected to the College of Business and Economics. As a result, there is no necessity to sequence course with MKT 422. In addition, by dropping this prerequisite, it will appeal to a larger audience across campus from CALS to CNR to CBE and beyond. AGEC 333 is a sales course.

ENTOMOLOGY, PLANT PATHOLOGY, AND NEMATOTOLOGY

1. Add the following courses:

ENT 410 Veterinary & Medical Entomology**3 credits**

Joint-listed with ENT 510

This course will explore why insects are such efficient disease vectors, how blood feeding evolved, the impact of insects and related arthropods and vector-borne diseases on humans and animals worldwide, and what is being done to combat the resurgence of many of these diseases. Offered in spring semester in odd years. Cooperative: Open to WSU degree-seeking students.

Prereq: BIOL 115 and EPPN 154 OR BIOL 250

ENT 510 Veterinary & Medical Entomology**3 credits**

Joint-listed with ENT 410

This course will explore why insects are such efficient disease vectors, how blood feeding evolved, the impact of insects and related arthropods and vector-borne diseases on humans and animals worldwide, and what is being done to combat the resurgence of many of these diseases. Offered in spring semester in odd years. Cooperative: Open to WSU degree-seeking students.

Available via distance: Yes

Geographical Area: Moscow, distance

Rationale: This course will be added to expand the current Entomology curriculum and provide greater educational opportunities for Entomology undergraduate students. It will serve as a critical course for the newly developed Global Disease Biology undergraduate program in EPPN.

ENT 476 Medical Parasitology**3 credits**

Joint-listed with ENT 576

This course will explore the biology of eukaryotic parasites as they impact human health. Topics will include blood, gastrointestinal, and multi-organ parasites. The life cycles, clinical importance, global impact, and cutting edge research on these parasites will be reviewed. Offered in spring semester in even years. Cooperative: Open to WSU degree-seeking students.

Prereq: EPPN 154 OR BIOL 250 and BIOL 310 or BIOL 312

ENT 576 Medical Parasitology**3 credits**

Joint-listed with ENT 476

This course will explore the biology of eukaryotic parasites as they impact human health. Topics will include blood, gastrointestinal, and multi-organ parasites. The life cycles, clinical importance, global impact, and cutting edge research on these parasites will be reviewed. Offered in spring semester in even years. Cooperative: Open to WSU degree-seeking students.

Available via distance: Yes

Geographical Area: Moscow, distance

Rationale: This course will be added to expand the current Entomology curriculum and provide greater educational opportunities for Entomology undergraduate students. It will serve as a critical course for the newly developed Global Disease Biology undergraduate program in EPPN.

ENT 480 Arthropod and Nematode Physiology

3 credits

Joint-listed with ENT 580

This course will compare and contrast fundamental physiological systems of insects, related arthropods, and nematodes, including those of medical, veterinary, agricultural, and ecological importance as well as those that have been established as critically important model organisms for biology. Course will be taught in the fall semester of odd years. Cooperative: Open to WSU degree-seeking students.

Prereq: BIOL 115 and EPPN 154 OR BIOL 250

ENT 580 Arthropod and Nematode Physiology

3 credits

Joint-listed with ENT 480

This course will compare and contrast fundamental physiological systems of insects, related arthropods, and nematodes, including those of medical, veterinary, agricultural, and ecological importance as well as those that have been established as critically important model organisms for biology. Course will be taught in the fall semester of odd years. Cooperative: Open to WSU degree-seeking students.

Prereq: BIOL 115 and EPPN 154 OR BIOL 250

Available via distance: Yes

Geographical Area: Moscow, distance

Rationale: This course will be added to expand the current Entomology curriculum and provide greater educational opportunities for Entomology undergraduate students. It will serve as a critical course for the newly developed Global Disease Biology undergraduate program in EPPN.

EPPN 506 Biological of Vector-borne Diseases Workshop

3 credits

The goal of the course is to create a knowledge network for a diverse community of practitioners that applies interventions to plant, animal and human vector-borne diseases. The course fits into graduate degree programs and academic certificate programs in CALS, CNR, COS and the College of Engineering. The course features sessions on selected themes developed by instructors from different areas of expertise. The instructors will present short talks, relevant discussion questions, podcasts and case studies. Themes of the course will focus on the common biological and abiotic drivers of diseases that are carried by vectors, and will include diseases of humans, animals and plants. Typical subject areas include, but are not limited to: 1) host and pathogen biology and heterogeneity, 2) virulence and resistance mechanisms, 3) diagnostics, 4) containment, 5) disease ecology, 6) global change, 7) emergence and re-emergence of pathogens and 8) various methods of controlling disease.

Prereq: Permission

Available via distance: Yes

Geographical Area: Moscow, distance

Rationale: This course will be added to complement the current Entomology graduate program curriculum. Because there is a significant number of graduate students from around the world who took the course the last time it was offered, we anticipate requests for transfer credit from many of these students. [503 requested; 506 assigned]