Agriculture

Hutson School of Agriculture

Broad opportuni t es for students to prepare for agricultural and related careers are o f ered by the Hutson School of Agriculture. The Hutson School of Agriculture o f ers three undergraduate degree programs: a Bachelor of Science in Agriculture (B.S.A.), a Bachelor of Science with a major in Agriculture, and an Associate of Science with emphasis in agricultural science and technology. Minors are available in agriculture, equine science, golf course management, and unmanned aerial systems.

The Hutson School of Agriculture also o f ers a Master of Science degree with both tradi t onal and on-line op t ons. The purpose of this degree is to provide an opportunity for professional agricultural personnel to obtain an educa t on at the graduate level or to prepare for terminal degree work at the doctoral level. Faculty advisors assist students in planning an appropriate course of study to meet individual goals and to assure a balanced program.

The Hutson School of Agriculture includes the Department of Agricultural Science, the Department of Animal and Equine Science, and the Department of Veterinary Technology and Pre-Veterinary Medicine. Agricultural facili t es include the farm laboratory complexes, the Cherry Agricultural Exposi t on Center, and the Breathi t Veterinary Center. The horse, beef, agronomy, and hor t culture facili t es are a part of the farm-laboratory complexes. The Cherry Agricultural Exposi t on Center is u t lized for equine and rodeo classes, f eld days, judging contests, clinics, and numerous agricultural ac t vi t es.

MSU's Breathi t Veterinary Center (BVC), located in Hopkinsville, Kentucky, has as its primary mission the provision of diagnos t c data; however, its mission also includes instruc t on and research. The laboratory is accredited through the American Associa t on of Veterinary Laboratory Diagnos t cians. The center's facili t es and personnel provide learning experiences for students in the animal da Ş ed oooDŽi ¯ C), Ş ' onesearch. - da Ʉ r

University Studies selections must include:
• Diploma in Information Technology
• Associate of Applied Science in Business Administration
Choose one of the following:
AGR 200 International Agricultural Experience
AGR 353 World Food, Agriculture and Society
SPA 106 Basic Spanish and Culture for Agriculture
• Bachelor of Science in Agriculture
• Bachelor of Science in Agriculture with Emphasis in Agribusiness
BIO 101 Biological Concepts
CHE 105 Introductory Chemistry I
or
CHE 210 Brief Organic Chemistry
MAT 140 College Algebra
or
MAT 220 Business Calculus
or
MAT 250 Calculus and Analytical Geometry I
• Bachelor of Science in Agriculture with Emphasis in Agribusiness
COM 260 Communication Ethics
or
POL 140 American National Government
ECO 230 Principles of Macroeconomics
• Bachelor of Science in Agriculture with Emphasis in Agribusiness
ECO 231 Principles of Microeconomics
FIN 230 Personal Finance

Agriculture Core Courses.....26 hrs
AGR 100T Transitions
AGR 100 Animal Science
AGR 130 Agricultural Economics
AGR 133 Field Applications for Agriculture
AGR 160 Horticultural Science
or
AGR 240 Crop Science
AGR 170 Introduction to Agricultural Systems Technology
AGR 199 Contemporary Issues in Agriculture
AGR 339 Computer Applications for Agriculture
AGR 345 Soil Science
AGR 399 Professional Development Seminar I
or
AGR 499 Leadership/Professional Development Seminar II
AGR 599 Agriculture Senior Capstone

Agribusiness Track.....24-25 hrs
ACC 200 Principles of Accounting I
AGR 328 Statistics for Food and Agriculture
or
STA 135 Introduction to Probability and Statistics
AGR 330 Principles of Agribusiness
AGR 336 Agricultural Marketing and Price Analysis
AGR 337 Agricultural Sales and Merchandising
AGR 433 Farm Management
AGR 531 Agricultural Finance
AGR 552 Agricultural Policy

Required Support Courses.....15 hrs
Choose one of the following support course emphases.

Crop Production Emphasis
AGR 547 Crop Management
AGR 549 Weeds and their Control
and three of the following: AGR 455, 470, 471, 542, 546, or 555.

Entrepreneurship Emphasis
AGR 334 Entrepreneurship in Agribusiness
MGT 350 Fundamentals of Management
MGT 358 Entrepreneurial Business Plan Development
Upper-level, advisor approved electives (6 hrs)

Global Emphasis
MKT 360 Principles of Marketing
MKT 568 Global Marketing Management
Choose three of the following:
AGR 353 World Food, Agriculture and Society
AGR 529 International Trade and Agriculture
AGR 533 Seminar in International Agriculture Systems
Three hours of foreign language

Marketing/Management Emphasis
MGT 350 Fundamentals of Management
MKT 360 Principles of Marketing
FIN 330 Principles of Finance
Upper-level, advisor approved electives (6 hrs)

Unrestricted Electives

AGR 339 Computer Applicat ons for Agriculture
AGR 345 Soil Science
AGR 399 Professional Development Seminar I
or
AGR 499 Leadership/Professional Development Seminar II
AGR 599 Agriculture Senior Capstone

Agriculture Systems Technology Track.....24 hrs
AGR 371 Agricultural Buildings and Construct on
AGR 372 Agricultural Metal Processes
AGR 377 Agriculture Safety
AGR 477 Agricultural Power Units
or
AGR 577 Tractor Power Principles
AGR elect ve (3 hrs)
Choose nine hours from the following:
AGR 379 Field Equipment Technology Management
AGR 470 Soil and Water Engineering
AGR 471 Applicat ons in Precision Agriculture
AGR 488 Cooperat ve Educat on/Internship
AGR 489 Cooperat ve Educat on/Internship
AGR 551 Selected Studies in Agriculture
AGR 570 Ag Systems Technology Lab Management
AGR 571 Advanced Precision Agriculture
AGR 572 Advanced Precision Agriculture

AGR 572 Advanced Precision Agriculture

AGR 572 Advanced Precision Agriculture

Unrestricted Electives ..... 12 hrs

Total Curriculum Requirements ..... 120 hrs

[1]AGR 199 fulfills the agriculture core and the university studies elective.

AREA:
Agricultural Science—**Horticulture Track**
Bachelor of Science in Agriculture CIP 01.9999

University Studies Requirements ..... 40 hrs
(See Academic Degrees and Programs.)

University Studies selections must include:
• ***Diversity and Global Awareness Course***
Choose one of the following:
AGR 200 International Agricultural Experience
AGR 353 World Food, Agriculture and Society
SPA 106 Basic Spanish and Culture for Agriculture
• ***Quantitative Literacy Course***
BIO 222 Botany: Plant Form and Function
CHE Botan ttat] l è

Agriculture Minor.....21 hrs
Program must be approved by an advisor with at least six hours of 300-level or above completed at Murray State.

Golf Course Management Minor.....21 hrs
ACC 200; AGR 160, 345, 460; MGT 350; and three hours of electives selected from either AGR 462 or MGT 370. Six hours must be upper-level courses.

Graduate Program

Graduate Coordinator - Alyx Shultz
216S Oakley Applied Science Building
270-809-6925

bz̈ŠY This master's degree may be earned via an online format.
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The Master of Science in Agriculture provides concentrations in agribusiness economics, agricultural education, sustainable agriculture, and veterinary hospital management. Please contact the graduate coordinator for details.

Requirements for Admission

Applicants must meet all Murray State University requirements (see Graduate Admissions). The status (conditional/unconditional) of an applicant must be determined before the student enrolls in the first class. Additional requirements for unconditional and conditional admission are as follows.

Unconditional

For unconditional admission, students must meet both of the following requirements:

- An overall grade point average (GPA) of 3.0 in the last

appropriate online courses among the following prefixes: ACC, AGR, COM, ECO, FIN, MGT, or MKT. Note: No more than two classes from ACC, ECO, FIN, MGT or MKT may be taken.

[1]Must include a significant creative or scholarly component that will be presented as part of a student's final oral presentation.

[2]Can be substituted with AED 735.

[3]Experience must be related to agribusiness and approved by advisor prior to enrollment.

Master of Science
Agriculture/Agricultural Education Concentration
CIP 01.9999

Total Course Requirements.....31 hours

AGR 686 Training and Presentation Development Strategies for Agricultural Audiences
AGR 700 Research in Agriculture [R] (6 hrs)
AGR 713 Graduate Computer Applications
AGR 720 Experimental Design and Statistical Analysis
AGR 722 Graduate Capstone Seminar[1, PT]
AGR 735 Research Methodology [L, 2]

Agricultural Education Concentration

Select 12 hours from the following:

AED 682 Instructional Design for Agricultural Education
AED 683 Instructional Material in Agricultural Education
AED 684 Beginning Teacher Workshop[3]
AED 685 Teaching Adults in Agriculture
AED 735 Qualitative Research Methods

Advisors may approve substitutions to non-core courses in special situations or to better align coursework with the student's professional goals. Students should consult with their advisor to identify appropriate online courses among the following prefixes: AGR, COM, CTE, EDU, or NLS.

[1]Must be taken during semester of graduation.

[2]Can be substituted with AED 735.

[3]Intended for current secondary agriculture teachers. Kentucky teachers should enroll in the fall following completion of the first year of teaching.

Master of Science
Agriculture/Sustainable Agriculture Concentration
CIP 01.9999

Total Course Requirements.....31 hours

AGR 686 Training and Presentation Development Strategies for Agricultural Audiences
AGR 700 Research in Agriculture [R] (6 hrs)
AGR 713 Graduate Computer Applications
AGR 720 Experimental Design and Statistical Analysis
AGR 722 Graduate Capstone Seminar[1, PT]
AGR 735 Research Methodology[L]

Sustainable Agriculture Concentration

Select 12 hours from the following:

AGR 655 Advanced Soil Fertility
AGR 661 Sustainable Agriculture
AGR 662 Principles of Agroecology
AGR 671 Advanced Precision Agriculture
AGR 744 Graduate Cooperative Education[2]

Advisors may approve substitutions to non-core courses in special situations or to better align coursework with the student's professional goals. Students should consult with their advisor to identify appropriate online courses among the following prefixes: AED, AGR, EES, WSC.

[1]Must be taken during semester of graduation.

[2]Experience must be related to sustainable agriculture and approved by advisor prior to enrollment.

Master of Science
Agriculture/Veterinary Hospital Management Concentration
CIP 01.9999

THESIS OR NON-THESIS

Total Course Requirements.....31 hours

AGR 700 Research in Agriculture [R]

CHE 105 Introductory Chemistry I
CHE 201 General College Chemistry
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AGR 199 Contemporary Issues in Agriculture
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Choose one of the following:
CHE 210/215 Brief Organic Chemistry and Organic Chemistry Laboratory
CHE 202 General Chemistry and Qualitative Analysis
EES 101 The Earth and the Environment
EES 102 Earth Through Time
EES 199 Earth Science

Agriculture Core Courses.....24 hrs
AGR 100T Transitons
AGR 100 Animal Science
AGR 300 Principles of Animal Nutriton
AGR 310 Applicatons in Animal Technology
AGR 339

Unrestricted Electives.....2-3 hrs

Total Curriculum Requirements.....120 hrs
[1]Required by American Veterinary Medical Association for certification.

AREA:
Animal Technology/
Veterinary Technology/Pre-Veterinary Medicine Track
Bachelor of Science in Agriculture CIP 51.0808

ACCREDITED BY: American Veterinary Medical Association

University Studies Requirements.....44 hrs
(See Academic Degrees and Programs.)

University Studies selections must include:
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BIO 101 Biological Concepts
CHE 201 General College Chemistry
MAT 150 Algebra and Trigonometry
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PHI 202 Ethics
or
POL 140 American National Government
PSY 180 General Psychology
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CIV 201 World Civilizations I
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CHE 202 General Chemistry and Qualitative Analysis
CIV 202 World Civilizations II
Note: 3rd year Veterinary School Applicants n ļ