MURRAY STATE UNIVERSITY

Hutson School of Agriculture

Bachelor of Science in Agriculture

Murray State University offers career preparation in Animal Technology and Agricultural Science areas.

Career Outlook

The field of agriculture includes a very broad range of career fields. Some of the areas include agronomy, animal science, equine science, horticulture, engineering/mechanization, communication, precision agriculture, veterinary medicine, education and business. Job opportunities are numerous, and agriculture graduates are in high demand. A brief list of agricultural positions might include plant breeder, soil scientist, soil conservationist, extension agent, sales representative, banker, teacher, nursery specialist, landscape designer, greenhouse manager, farmer, animal nutritionist, animal breeder, economist, forester, processor, veterinary technician and veterinarian. Starting salaries for a B.S. graduate are very competitive with other academic disciplines.

Specialization Options

The Hutson School of Agriculture offers undergraduate and graduate curriculums leading to degrees by specializing in:

Department of Agricultural Science

- **Agronomy**
  - -Sales/Production Emphasis
  - -Research Emphasis
  - -Practicum Emphasis
- **Agribusiness Economics**
  - -Crop Production Emphasis
  - -Marketing/Management Emphasis
  - -Entrepreneurship Emphasis
  - -Global Emphasis
- **Agricultural Education**
- **Agricultural Systems Technology**
- **Horticulture**
- **Agriscience Technology**
  - -Communications Emphasis
  - -Agriculture Public Service/ Leadership Emphasis
  - -Agricultural Technology Emphasis
  - -Emerging Technology Emphasis
  - -Environmental/Health Emphasis

Department of Animal and Equine Science

- **Animal/Equine Science**
  - -Food Animal Emphasis
  - -Equine Management Emphasis
  - -Equine Science Emphasis
  - -Specialty Option

Department of Veterinary Technology and Pre-Veterinary Medicine

- **Veterinary Technology**
  - -Animal Health Technology Emphasis
  - -Large Animal Emphasis
  - -Zoology Animal Health Technology Emphasis
- **Pre-Veterinary Medicine**

Facilities

Hutson School of Agriculture facilities include classrooms, laboratories and offices housed in the south wing of the Oakley Applied Science Building, A. Carman Animal Health Technology Center, E.B. Howton Agricultural Engineering Building, Equine Instructional Facility, greenhouses and four farm complexes located near campus.

The equine, beef, swine, small animal and aquaculture facilities are a part of the farm-laboratory complex. The Wm. Bill Cherry Agricultural Exposition Center is utilized for equine and rodeo classes, contests, field days, judging contests, clinics and numerous agriculture activities.

Organizations

- Agriculture Leadership Council
- Alpha Gamma Rho
- Agriculture Ambassadors
- Agribusiness Club
- Agricultural Engineering Technology Club
- Agronomy Club
- Alpha Zeta
- Block and Bridle
- Collegiate FFA
- Collegiate 4-H
- Crops Judging Team
- Dressage Club
- Equestrian Team
- Horseman's Club
- Horticulture Club
- Livestock Judging Team
- Rodeo Team/Club
- Soil Judging Team
- Sigma Alpha
- Veterinary Technology/Pre-Vet Club

For More Information Contact

Recruitment Coordinator
Murray State University
Hutson School of Agriculture
(270) 809-3329 msu.ag@murraystate.edu

Visit Our Website

www.murraystate.edu/agr

Bachelor of Science Degree - Courses of Study

General Agriculture

AGR	100T	Transitions
AGR	105	Introduction to Rodeo
AGR	133	Field Applications for Agriculture
AGR	199	Contemporary Issues in Agriculture
AGR	200	International Agriculture Experience
AGR	339	Computer Applications for Agriculture
AGR	353	World, Food, Agriculture and Society
AGR	399	Professional Development Seminar I
AGR	435	Interpretation of Agricultural Research
AGR	436	Undergraduate Research in Agriculture
AGR	437	Senior Honors Thesis
AGR	439	Software Applications in Agriculture
AGR	471	Applications in Precision Agriculture
AGR	488	Cooperative Education/Internship
AGR	489	Cooperative Education/Internship
AGR	499	Professional Development Seminar II
AGR	533	Seminar in International Agriculture Systems
AGR	538	Seminar in Production Agricultural Systems
AGR	539	Advanced Computer Applications for Agriculture
AGR	551	Selected Studies in Agriculture
AGR	571	Advanced Precision Agriculture
AGR	585	Specialized Journalism/RTV
AGR	599	Agriculture Senior Capstone

Agricultural Education

AED	104	Agricultural Education, Leadership and Life Knowledge
AED	380	Agricultural Education, Extension & Leadership
AED	421	Student Teaching in Agricultural Education
AED	501	Methods in Teaching Agricultural Education
AED	582	Supervision in Agricultural Education
AED	593	Practicum in Ag Ed, Extension & Public Svc Leadership

Equine Science

AGR	101	Basic Stock Seat Horsemanship
AGR	102	Beginning Hunt Seat Equitation
AGR	103	Intermediate Hunt Seat Equitation
AGR	104	Advanced Hunt Seat Equitation
AGR	106	Beginning Stock Seat Equitation
AGR	107	Intermediate Stock Seat Equitation
AGR	108	Advanced Stock Seat Equitation
AGR	109	Beginning Horsemanship Experience
AGR	110	Livestock Events Production
AGR	111	Basic Forward Seat Equitation
AGR	201	Intermediate Horsemanship
AGR	302	Horse Science
AGR	303	Advanced Horse Science
AGR	304	Advanced Stock Seat
AGR	306	Advanced Forward Seat
AGR	308	Applied Equine Management
AGR	309	Equine Facilities Management
AGR	315	Equine Exercise Physiology
AGR	317	Equine Health Care and Management
AGR	318	Equine Forage Management
AGR	319	Equine Nutrition and Feeding
AGR	401	Equine Breeding Management
AGR	403	Equine Reproduction
AGR	404	Selective Equine Breeding
AGR	405	Equine Behavior Modification
AGR	407	Equine Selection and Evaluation
AGR	408	Equine Wilderness Studies
AGR	497	Advanced Practicum in Equine Management
AGR	514	Teaching Students Horsemanship

Animal Technology

AGR	100	Animal Science
AGR	182	Introduction to Veterinary Science
AGR	223	Introduction to Artificial Insemination for Cattle
AGR	300	Principles of Animal Nutrition and Ration Formulation
AGR	301	Livestock Judging and Evaluation
AGR	310	Applications in Animal Technology
AGR	311	Beef Science
AGR	312	Dairy Science
AGR	313	Livestock Production Management Systems
AGR	314	Small Ruminant Science
AGR	316	Dairy Cattle Selection and Evaluation
AGR	320	Livestock Behavioral Analysis
AGR	321	Poultry Science
AGR	322	Veterinary Laboratory Principles
AGR	324	Veterinary Diagnostic Imaging
AGR	325	Small Animal Science
AGR	326	Swine Science
AGR	329	Veterinary Hematology and Microbiology
AGR	331	Small Animal Diseases
AGR	332	Veterinary Nursing
AGR	340	Veterinary Laboratory Sciences
AGR	373	Animals in Disaster
AGR	374	Livestock in Disaster
AGR	380	Veterinary Laboratory Rotation
AGR	400	Veterinary Microbiology
AGR	402	Advanced Livestock Judging
AGR	410	Advanced Veterinary Hematology
AGR	420	Veterinary Clinical Chemistry
AGR	430	Veterinary Parasitology
AGR	440	Behavior Modification Techniques for Domestic Animals
AGR	441	Principles of Animal Learning
AGR	444	Purebreed Livestock Management and Marketing
AGR	451	Veterinary Technology Review
AGR	502	Advanced Nutrition
AGR	503	Genetics and Animal Breeding
AGR	504	Diseases of Livestock
AGR	505	Forage Management Systems

Animal Technology - Continued

AGR	506	Reproductive Physiology
AGR	510	Animal Anatomy and Physiology
AGR	511	Animal Anatomy and Physiology Laboratory
AGR	512	Beef Cattle Management Systems
AGR	523	Artificial Insemination Techniques for Cattle
AGR	540	Veterinary Surgery and Anesthesia
AGR	550	Applied Pharmacology
AGR	560	Advanced Veterinary Surgery and Anesthesia
AGR	580	Veterinary Products
AGR	582	Veterinary Practice and Operations
AGR	583	Veterinary Law and Ethics
AGR	590	Internship in Animal Technology

Agricultural Systems Technology

AGR	170	Introduction to Agricultural Systems Technology
AGR	371	Agricultural Buildings and Construction
AGR	372	Agricultural Metal Processes
AGR	377	Agriculture Safety
AGR	378	Agricultural Environmental Management Systems
AGR	379	Field Equipment Technology Management
AGR	438	Seminar in Agricultural Systems
AGR	470	Soil and Water Engineering
AGR	477	Agricultural Power Units
AGR	570	Agricultural Systems Technology Laboratory Management
AGR	572	Advanced Metal Work
AGR	573	Agricultural Processing Systems
AGR	574	Agricultural Irrigation and Water Systems
AGR	575	Combine and Grain Handling Systems
AGR	576	Agricultural Electrification Systems
AGR	577	Tractor Power Principles
AGR	578	Research and Development of Agricultural Tractors and Equipment

Agribusiness Economics

AGR	130	Agricultural Economics
AGR	181	Skill Development in Agriculture Production and Agribusiness
AGR	328	Statistics for Food and Agriculture
AGR	330	Principles of Agribusiness
AGR	333	Agribusiness Records and Analysis
AGR	334	Entrepreneurship in Agribusiness
AGR	335	Farm Systems Management
AGR	336	Agricultural Marketing and Price Analysis
AGR	337	Agricultural Sales and Merchandizing
AGR	338	Rural Economic Development
AGR	433	Farm Management
AGR	529	International Trade and Agriculture
AGR	530	Advanced Agricultural Prices
AGR	531	Agricultural Finance
AGR	532	Farm and Land Appraisal
AGR	534	Types and Systems of Farming and Agribusiness
AGR	536	Quantitative Methods for Agribusiness
AGR	537	Seminar in Agricultural Business Systems
AGR	552	Agricultural Policy

Horticulture

AGR	160	Horticultural Science
AGR	180	Skill Development in Horticulture
AGR	261	General Pomology
AGR	262	Vegetable Crop Production
AGR	263	Woody Plant Material I
AGR	269	Introduction to Forestry
AGR	360	Greenhouse Production and Management
AGR	361	Horticulture & Greenhouse Management Practicum
AGR	362	Floral Design
AGR	363	Woody Plant Material II
AGR	364	Nursery Management
AGR	365	Herbaceous Plant Materials
AGR	366	Horticultural Judging
AGR	367	Residential Landscape Design
AGR	368	Landscape Construction
AGR	460	Professional Experience in Horticulture
AGR	461	Plant Propagation
AGR	462	Fine Turf Management
AGR	463	Horticultural Therapy
AGR	542	Plant Breeding I
AGR	563	Arboriculture
AGR	564	Public Garden Management
AGR	565	Public Garden Management Practicum
AGR	566	Advanced Greenhouse Management and Production
AGR	567	Advanced Landscape Design
AGR	569	Plants for Interior Design

Agronomy

AGR	240	Crop Science
AGR	247	Tobacco Production
AGR	341	Seed Production and Technology
AGR	342	Seed, Crop & Grain Analysis
AGR	345	Soil Science
AGR	346	Soil Science Laboratory
AGR	350	Soil Survey
AGR	355	Soil Judging
AGR	376	Agricultural Chemicals
AGR	455	Soil Management
AGR	470	Soil and Water Engineering
AGR	498	Agronomy Practicum
AGR	541	Crop Physiology
AGR	546	Integrated Pest Management
AGR	547	Crop Management
AGR	549	Weeds and Their Control
AGR	554	Soil and Plant Analysis
AGR	555	Advanced Soil Fertility
AGR	561	Sustainable Agriculture
AGR	562	Principles of Agroecology