

## **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

**■** Agribusiness Economics

-Crop Production Emphasis

-Marketing/Management Emphasis

-Entrepreneurship Emphasis
-Global Emphasis

-Practicum Emphasis

■ Agricultural Education

■ Agricultural Systems Technology

**■** Horticulture

■ Agriscience Technology

-Communications Emphasis -Agriculture Public Service/ Leadership Emphasis -Emerging Technology Emphasis -Environmental/Health

-Agricultural Technology Emphasis Emphasis

Department of Animal and Equine Science

■ Animal/Equine Science

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

# $\frac{\textbf{Department of Veterinary Technology and Pre-Veterinary}}{\textbf{Medici} \underline{\textbf{ne}}}$

■ Veterinary Technology

-Veterinary Technology Emphasis -Zoology Animal Health Technology Emphasis

-Large Animal 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 field days, judging contests, clinics and numerous other 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 Farm Bureau
- Collegiate 4-H
- Crops Judging Team
- Dressage Club
- Equestrian Team
- Horseman's Association
- Horticulture Club
- Swine Club
- 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

www.murraystate.edu/agr

### **Bachelor of Science Degree - Courses of Study**

		C	9			•
General A	Agriculture		A	nimal	Technology - C	ontinued
AGR	100T	Transitions	A	AGR	505	Forage Management Systems
AGR	105	Introduction to Rodeo		AGR	506	Reproductive Physiology
AGR AGR	133 199	Field Applications for Agriculture Contemporary Issues in Agriculture		AGR AGR	510 511	Animal Anatomy and Physiology Animal Anatomy and Physiology Laboratory
	200	International Agriculture Experience		AGR	512	Beef Cattle Management Systems
AGR	339	Computer Applications for Agriculture		AGR	540	Veterinary Surgery and Anesthesia
AGR	353	World, Food, Agriculture and Society		AGR	550	Applied Pharmacology
AGR AGR	383 399	Disseminating Ag, Food, and Natural Resources through Emerging Media Professional Development Seminar I		AGR AGR	560 580	Advanced Veterinary Surgery and Anesthesia Veterinary Products
AGR	435	Interpretation of Agricultural Research		AGR	582	Veterinary Products  Veterinary Practice and Operations
AGR	436	Undergraduate Research in Agriculture	A	AGR	583	Veterinary Law and Ethics
AGR	437	Senior Honors Thesis		AGR	590	Internship in Animal Technology
AGR AGR	439 471	Software Applications in Agriculture Applications in Precision Agriculture		Agricul AGR	tural Systems To 170	echnology Introduction to Agricultural Systems Technology
AGR	488	Cooperative Education/Internship		AGR	371	Agricultural Buildings and Construction
AGR	489	Cooperative Education/Internship		AGR	372	Agricultural Metal Processes
AGR	499	Leadership/Professional Development Seminar II		AGR	377	Agriculture Safety
AGR	533	Seminar in International Agriculture Systems		AGR	378 379	Agricultural Environmental Management Systems
AGR AGR	538 539	Seminar in Production Agricultural Systems Advanced Computer Applications for Agriculture		AGR AGR	438	Field Equipment Technology Management Seminar in Agricultural Systems
AGR	551	Selected Studies in Agriculture		AGR	470	Soil and Water Engineering
AGR	571	Advanced Precision Agriculture		AGR	477	Agricultural Power Units
AGR	585	Specialized Journalism/RTV		AGR	570	Agricultural Systems Technology Laboratory Management
AGR AGR	586 595	Training & Presentation Development Strategies for Agricultural Audiences Integrated Agricultural Communications Strategies		AGR AGR	572 573	Advanced Metal Work Agricultural Processing Systems
AGR	599	Agriculture Senior Capstone		AGR	574	Agricultural Irrigation and Water Systems
	ıral Education			AGR	575	Combine and Grain Handling Systems
AED	104	Agricultural Education, Leadership and Life Knowledge		AGR	576	Agricultural Electrification Systems
AED	250	Special Problems in Agricultural Education		AGR	577	Tractor Power Principles
AED AED	380 421	Agricultural Education, Extension & Leadership Student Teaching in Agricultural Education		AGR Agribus	578 siness Economic	Research and Development of Agricultural Tractors and Equipment
AED	501	Methods in Teaching Agricultural Education		AGR	130	Agricultural Economics
AED	582	Supervision in Agricultural Education	А	AGR	181	Skill Development in Agriculture Production and Agribusiness
AED	593	Practicum in Ag Ed, Extension & Public Svc Leadership		AGR	328	Statistics for Food and Agriculture
Equine S AGR	cience 101	Basic Stock Seat Horsemanship		AGR AGR	330 333	Principles of Agribusiness Management Agribusiness Records and Analysis
AGR	101	Beginning Equitation 1		AGR	334	Entrepreneurship in Agribusiness
AGR	103	Intermediate Hunt Seat Equitation	А	AGR	335	Farm Systems Management
AGR	104	Advanced Hunt Seat Equitation		AGR	336	Agricultural Commodity Marketing
AGR	106	Beginning Equitation 2		AGR	337 338	Agricultural Sales and Merchandizing
AGR AGR	107 108	Intermediate Stock Seat Equitation Advanced Stock Seat Equitation		AGR AGR	433	Rural Economic Development Farm Management
AGR	109	Beginning Horsemanship Experience		AGR	434	Food and Agriculture Marketing
AGR	110	Livestock Events Production & Venue Management		AGR	528	Agriculture, Food & Rural Law
AGR	111	Basic Forward Seat Equitation		AGR	529	International Trade and Agriculture
AGR AGR	201 302	Intermediate Horsemanship Horse Science		AGR AGR	530 531	Advanced Agricultural Commodity Marketing Agricultural Finance
AGR	303	Advanced Horse Science		AGR	532	Farm and Land Appraisal
AGR	304	Advanced Stock Seat		AGR	534	Types and Systems of Farming and Agribusiness
AGR	306	Advanced Forward Seat		AGR	536	Quantitative Methods for Agribusiness
AGR AGR	308 309	Applied Equine Management		AGR AGR	537 552	Seminar in Agricultural Business Systems
AGR	315	Equine Facilities Management Equine Exercise Physiology		iorticu		Agricultural Policy
AGR	317	Equine Health Care and Management		AGR	160	Horticultural Science
	318	Equine Forage Management		AGR	180	Skill Development in Horticulture
	319	Equine Nutrition and Feeding		AGR	261	General Pomology
AGR AGR	401 403	Equine Breeding Management Equine Reproduction		AGR AGR	262 263	Vegetable Crop Production Woody Plant Material I
AGR	404	Selective Equine Breeding		AGR	269	Introduction to Forestry
AGR	405	Equine Behavior Modification	A	AGR	360	Greenhouse Production and Management
AGR	407	Equine Selection and Evaluation		AGR	361	Horticulture & Greenhouse Management Practicum
AGR AGR	408 497	Equine Wilderness Studies Advanced Practicum in Equine Management		AGR AGR	362 363	Floral Design Woody Plant Material II
	514	Teaching Methods in Equine Science		AGR	364	Nursery Management
	echnology	reading methods in Equino Science		AGR	365	Herbaceous Plant Materials
AGR	100	Animal Science		AGR	366	Horticultural Judging
AGR	182	Introduction to Veterinary Science		AGR	367	Residential Landscape Design
AGR AGR	223 300	Introduction to Artificial Insemination for Cattle Principles of Animal Nutrition and Ration Formulation		AGR AGR	368 460	Landscape Construction Professional Experience in Horticulture
AGR	301	Livestock Judging and Evaluation		AGR	461	Plant Propagation
AGR	310	Applications in Animal Technology	A	AGR	462	Fine Turf Management
AGR	311	Beef Science		AGR	463	Horticultural Therapy
AGR AGR	312 313	Dairy Science Livestock Production Management Systems		AGR AGR	542 563	Plant Breeding I Arboriculture
AGR	314	Small Ruminant Science		AGR	564	Public Garden Management
	316	Dairy Cattle Selection and Evaluation		AGR	565	Public Garden Management Practicum
AGR	320	Livestock Behavioral Analysis	A	AGR	566	Advanced Greenhouse Practicum
	321	Poultry Science		AGR	567	Advanced Landscape Design
AGR AGR	322 324	Introductory Veterinary Laboratory I Veterinary Diagnostic Imaging		AGR Agrono	569 mv	Interior Plantscaping
AGR	324	Small Animal Science		Agrono AGR	<b>my</b> 240	Crop Science
AGR	326	Swine Science		AGR	247	Tobacco Production
AGR	329	Introductory Veterinary Laboratory II	A	AGR	341	Seed Production and Technology
AGR	331	Small Animal Diseases		AGR	342	Seed, Crop & Grain Analysis
AGR AGR	332 340	Veterinary Nursing Veterinary Laboratory Sciences		AGR AGR	345 346	Soil Science Soil Science Laboratory
AGR	375	Animal Emergency Preparedness		AGR	350	Soil Survey
AGR	380	Veterinary Laboratory Rotation	A	AGR	355	Soil Judging
AGR	400	Veterinary Microbiology	А	AGR	376	Agricultural Chemicals
	402	Advanced Livestock Judging		AGR	455	Soil Management
AGR AGR	410 420	Advanced Veterinary Hematology Veterinary Clinical Chemistry		AGR AGR	470 498	Soil and Water Engineering Agronomy Practicum
AGR	423	Artificial Insemination Techniques for Cattle		AGR	541	Crop Physiology
AGR	426	Experience in Swine Production	А	AGR	546	Integrated Pest Management
AGR	430	Veterinary Parasitology		AGR	547	Crop Management
AGR AGR	440 441	Behavior Modification Techniques for Domestic Animals		AGR AGR	549 554	Weeds and Their Control Soil and Plant Analysis
AGR AGR	441 444	Principles of Animal Learning Purebred Livestock Management and Marketing		AGR AGR	554 555	Soil and Plant Analysis Advanced Soil Fertility
AGR	502	Advanced Nutrition		AGR	561	Sustainable Agriculture
AGR	503	Genetics and Animal Breeding		AGR	562	Principles of Agroecology
AGR	504	Diseases of Livestock				