

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**
 - Veterinary 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 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
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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 383	Disseminating Ag, Food, and Natural Resources through Emerging Media
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	Leadership/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 586	Training & Presentation Development Strategies for Agricultural Audiences
AGR 595	Integrated Agricultural Communications Strategies
AGR 599	Agriculture Senior Capstone

Agricultural Education

AED 104	Agricultural Education, Leadership and Life Knowledge
AED 250	Special Problems in Agricultural Education
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 Equitation 1
AGR 103	Intermediate Hunt Seat Equitation
AGR 104	Advanced Hunt Seat Equitation
AGR 106	Beginning Equitation 2
AGR 107	Intermediate Stock Seat Equitation
AGR 108	Advanced Stock Seat Equitation
AGR 109	Beginning Horsemanship Experience
AGR 110	Livestock Events Production & Venue Management
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 Methods in Equine Science

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	Introductory Veterinary Laboratory I
AGR 324	Veterinary Diagnostic Imaging
AGR 325	Small Animal Science
AGR 326	Swine Science
AGR 329	Introductory Veterinary Laboratory II
AGR 331	Small Animal Diseases
AGR 332	Veterinary Nursing
AGR 340	Veterinary Laboratory Sciences
AGR 375	Animal Emergency Preparedness
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 426	Experience in Swine Production
AGR 430	Veterinary Parasitology
AGR 440	Behavior Modification Techniques for Domestic Animals
AGR 441	Principles of Animal Learning
AGR 444	Purebred Livestock Management and Marketing
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 Management
AGR 333	Agribusiness Records and Analysis
AGR 334	Entrepreneurship in Agribusiness
AGR 335	Farm Systems Management
AGR 336	Agricultural Commodity Marketing
AGR 337	Agricultural Sales and Merchandizing
AGR 338	Rural Economic Development
AGR 433	Farm Management
AGR 434	Food and Agriculture Marketing
AGR 528	Agriculture, Food & Rural Law
AGR 529	International Trade and Agriculture
AGR 530	Advanced Agricultural Commodity Marketing
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	Arborealiculture
AGR 564	Public Garden Management
AGR 565	Public Garden Management Practicum
AGR 566	Advanced Greenhouse Practicum
AGR 567	Advanced Landscape Design
AGR 569	Interior Landscaping

Agromony

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	Agromony 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