

Hutson School of Agriculture



Tony Brannon, Dean 103 South Oakley Applied Science Building 270-809-3328

	DEPAR	TMENTS	
Agricultural Science	316	Veterinary Technology and	331
Animal and Equine Science	329	Pre-Veterinary Medicine	

PRUG	KAIVIO

UNDERGRADUATE	GRADUATE
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<u>Associate</u>

Agricultural Science and Technology

Baccalaureate
Agricultural Science
Animal Technology

Minor Agriculture Equine Science Golf Course Management Master's Agriculture

Certificate

Veterinary Hospital Management

Hutson School of Agriculture

Broad opportunities for students to prepare for agricultural and related careers are offered by the Hutson School of Agriculture. The Hutson School of Agriculture offers 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, and golf course management.

The Hutson School of Agriculture also offers a Master of Science degree with both traditional and on-line options. The purpose of this degree is to provide an opportunity for professional agricultural personnel to obtain an education 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 facilities include the farm laboratory complexes, the Cherry Agricultural Exposition Center, and the Breathitt Veterinary Center. The horse, beef, agronomy, and horticulture facilities are a part of the farm-laboratory complexes. The Cherry Agricultural Exposition Center is utilized for equine and rodeo classes, contests, field days, judging contests, clinics, and numerous agricultural activities.

MSU's Breathitt Veterinary Center (BVC), located in Hopkinsville, Kentucky, has as its primary mission the provision of diagnostic data; however, its mission also includes instruction and research. The laboratory is accredited through the American Association of Veterinary Laboratory Diagnosticians. The center's facilities and personnel provide learning experiences for students in the animal health technology program. The BVC also conducts research dealing with infectious diseases of food animals.

Department of Agricultural Science

212 Oakley Applied Science South 270-809-3327

Head: Brian Parr. Faculty: Bellah, Ferguson, Handayani, Hoover, Morrow, Musunuru, Payne, Santiago, M. Shultz, Still.

The Department of Agriculture Science offers a Bachelor of Science in Agriculture Degree with the following tracks: (1) agronomy, (2) agriculture science/ agriscience technology track, (3) agricultural education, (4) agribusiness, (5) agriculture systems technology, and (6) horticulture. The agriculture science/ agriscience technology track includes emphases in emerging technology, communications/public relations, environmental/ health, agriculture public service/leadership, and agriculture technology.

Facilities for agriculture science include classrooms and labs in Oakley Applied Science South, Howton Agriculture Engineering Building, the West Farm, the Hutson Farm, the North Farm, the Pullen Farm Complex with three greenhouses and environmental center lab, and the agriculture systems technology farm lab.

ASSOCIATE: Agricultural Science and Technology

Associate of Science Degree CIP 01.9999

University Studies Requirements21 hrs

(See Academic Degrees and Programs.)

University Studies selections must include:

•Scientific Inquiry, Methodologies, and Quantitative Skills

BIO 101 Biological Concepts

or

CHE 105 Introductory Chemistry I

or

PHY 120 General Physics I

MAT 120 College Algebra with Business Applications

or

MAT 140 College Algebra

Agriculture Core Courses 41 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 Agriculture¹

AGR 339 Computer Applications for Agriculture

AGR 345 Soil Science

CIP 01.9999

Bachelor of Science in Agriculture Degree

AGR AGR		Professional Development Seminar I ives (16 hrs)
		culum Requirements
ARE		ural Science/AgriScience Technology Track
~g i	Cuit	urar ocience/Agriocience recimology track
		Studies Requirements
Unive	rcity (Studios coloctions must includo:
		Studies selections must include: vareness, Cultural Diversity and the World's Artistic Traditions
		of the following:
AGR		International Agricultural Experience
AGR		World Food, Agriculture and Society
SPA		Basic Spanish and Culture for Agriculture
		Inquiry, Methodologies, and Quantitative Skills
BIO	-	Biological Concepts
CHE	105	Introductory Chemistry I
MAT		
	or	• •
MAT	140	College Algebra
•Soci		Self-Awareness and Responsible Citizenship
AGR	199	Contemporary Issues in Agriculture ¹
BIO	103	Saving Planet Earth
	or	
POL	140	American National Government
	_	Studies Electives
CHE	210	Brief Organic Chemistry
CLIE	and	Oracaria Chamaiatan I ahawatan .
CHE	215	Organic Chemistry Laboratory
GSC	or 199	Earth Science
Agric	ulture	Core Courses 26 hrs
AGR		Transitions
AGR	100	Animal Science
AGR	130	Agricultural Economics
AGR	133	Field Applications for Agriculture
AGR		Horticultural Science
	or	
AGR	240	Crop Science
AGR	170	Introduction to Agricultural Systems Technology
AGR	199	Contemporary Issues in Agriculture ¹
AGR	339	Computer Applications for Agriculture
AGR	345	Soil Science
AGR	399	Professional Development Seminar I
AGR	599	Agriculture Senior Capstone
AgriS	cience	e Technology Track24 hrs
AGR	377	Agriculture Safety
AGR	433	Farm Management
		the following:
AGR		Principles of Animal Nutrition
AGR		Livestock Judging and Evaluation
AGR		Horse Science
AGR		Beef Science
AGR		Dairy Science
AGR		,
AGR	326	Swine Science
		the following:
AGR	330	Principles of Agribusiness
AGR	333	Agribusiness Records and Analysis

AGR 337 Agricultural Sales and Merchandising

and c	ne of	the following:
AGR	360	Greenhouse Production and Management
AGR	461	Plant Propagation
AGR	542	Plant Breeding I
AGR	549	Weeds and Their Control
one (of the j	following:
		Agricultural Metal Processes
AGR	379	Field Equipment Technology Management
AGR	470	Soil and Water Engineering
		Agricultural Power Units
		Agricultural Electrification Systems
AGR		Tractor Power Principles
	and	4-1-12
AGR	electiv	es (6 hrs) ²
_		
		upport Courses
CHOO	se one	of the following support course emphases.
Emor	aina T	ochnology Emphasis (32 hrs)
AGR		echnology Emphasis (22 hrs) Applications in Precision Agriculture ²
		Advanced Precision Agriculture ²
		Introduction to Geographic Information Science
GSC		Introduction to Geographic information science
		e of the following:
	439	3 3
AGR		• • •
		Internet and World Wide Web Technologies
		Map Analysis
GSC	521	
TSM		,
Comi	munic	ations Emphasis (21 hrs)
JMC	168	Contemporary Mass Media
JMC	194	Newswriting
JMC	330	Mass Media Effects
JMC	391	Public Relations Principles
JMC	590	Mass Communications Law
AGR	585	Specialized Journalism/RTV ²
	or	
		Advanced Public Relations
Advis	or-app	proved AGR, COM, or JMC elective
		ntal/Health Emphasis (21 hrs)
AGR	378	o ,
CET	330	,
CET	331	, ,,
CET	342	,
CET	353	<u> </u>
CET	555	Environmental Regulatory Affairs
ENT	286	Introduction to Environmental Engineering Technology
A: -		Dublic Comice /Leadaushin Frankasia /24 hus)
		Public Service/Leadership Emphasis (21 hrs)
AGR	488	·
AGR	489	·
NLS	290	•
NLS	350	
NLS	351	Leadership and Support Systems in Nonprofit Organizations
AGK,	ALD, (COM, CTE, MGT, NLS advisor approved electives (6 hrs) ²
A ~=: -		I Tochnology Emphasis /21 22 hrs\
_		I Technology Emphasis (21-22 hrs)
AGR AGR	313 439	Livestock Production Management Systems Software Applications for Agriculture ²
AGR		Applications in Precision Agriculture ²
AGK	471	Applications in Frecision Agriculture

AGR 499 Leadership/Professional Development Seminar II AGR 537 Seminar in Agricultural Business Systems

Bachelor of Science in Agriculture Degree

CIP 01.9999

AGR 538 Seminar in Production Agricultural Systems AGR 571 Advanced Precision Agriculture Advanced Computer Applications for Agriculture AGR 539 AGR 547 Crop Management Unrestricted Electives8-9 hrs Total Curriculum Requirements 120 hrs ¹AGR 199 fulfills both Agriculture Core and a University Studies elective requirement. ²These agriculture electives may be fulfilled by agriculture courses used in the chosen emphasis. Agricultural Science/Agricultural Education Certification (5-12) Track University Studies Requirements 40 hrs (See Academic Degrees and Programs.) University Studies selections must include: •Global Awareness, Cultural Diversity and the World's Artistic Traditions Choose one of the following: AGR 200 International Agricultural Experience AGR 353 World Food, Agriculture and Society 106 Basic Spanish and Culture for Agriculture Scientific Inquiry, Methodologies, and Quantitative Skills 101 Biological Concepts 105 Introductory Chemistry I CHE 140 College Algebra¹ MAT 135 Introduction to Probability and Statistics¹ Social and Self-Awareness and Responsible Citizenship 103 Saving Planet Earth 140 American National Government EDP 260 Psychology of Human Development University Studies Electives AGR 199 Contemporary Issues in Agriculture^{2,3} Choose one of the following: BIO 221 Zoology BIO 222 Botany CHE 101 Consumer Chemistry GSC 199 Earth Science Note: Certification requires a grade of B or better in one English composition course and a B or better in a University Studies math course, public speaking, and AED 380 or equivalent course. Additional requirements for admission to teacher education and student teaching must be met. See advisor and/or Office of Teacher Education Services for details. AGR 100T Transitions AGR 100 Animal Science AGR 130 Agricultural Economics 133 Field Applications for Agriculture AGR AGR 160 Horticultural Science AGR 240 Crop Science AGR 170 Introduction to Agricultural Systems Technology

Contemporary Issues in Agriculture^{2,3} AGR 199 AGR 339 Computer Applications for Agriculture^{4,5} AGR 345 Soil Science AGR 399 Professional Development Seminar I AGR 599 Agriculture Senior Capstone Agricultural Education Track 24 hrs AED 104 Agricultural Education, Leadership and Life Knowledge AGR 360 Greenhouse Production and Management AGR 337 Agricultural Sales and Merchandising or AGR 433 Farm Management

AGR 570 Agricultural Systems Technology Laboratory Management	
Choose one of the following:	
AGR 303 Advanced Horse Science	
AGR 321 Poultry Science	
AGR 325 Small Animal Science	
AGR 461 Plant Propagation	
AGR 471 Applications in Precision Agriculture	
GR 555 Advanced Soil Fertility	
GR 573 Agricultural Processing Systems	
Choose one of the following:	
AGR 361 Greenhouse Practicum	
GR 362 Floral Design	
GR 368 Landscape Construction	
GR 461 Plant Propagation	
hoose one of the following:	
GR 300 Principles of Animal Nutrition	
GR 301 Livestock Judging	
GR 302 Horse Science	
GR 311 Beef Science	
GR 326 Swine Science	
annihad Compant Compan	
equired Support Courses	
ED 380 Agricultural Education, Extension, and Leadership ¹	
ED 501 Methods of Teaching Agricultural Education ^{1,6,7}	
TE 502 Assessment and Curricula in CTE	
EC 421 Student Teaching in Secondary School ⁶	
ED 300 Educating Students with Disabilities	
nd an advisor approved content literacy course (3 hrs) ⁸	
² AGR 199 will fulfill both the agriculture core and university studies elective. ³ Identified as discipline specific writing intensive course. ⁴ Identified as discipline specific writing intensive course. ⁵ With a grade of <i>C</i> or better. ⁶ Admission to Teacher Education required. ⁷ Must be repeated for a total of six hours. ⁸ ENG 445 or REA 407.	
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AREA:	Bachelor of Science in Agriculture Degree
AREA:	
AREA: Agricultural Science/Agribusiness Track	
AREA: Agricultural Science/Agribusiness Track University Studies Requirements	
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AREA: Agricultural Science/Agribusiness Track University Studies Requirements	
AREA: Agricultural Science/Agribusiness Track Iniversity Studies Requirements	
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AREA: Agricultural Science/Agribusiness Track Iniversity Studies Requirements	
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AREA: Agricultural Science/Agribusiness Track niversity Studies Requirements	
AREA: Agricultural Science/Agribusiness Track Iniversity Studies Requirements	
AREA: Agricultural Science/Agribusiness Track University Studies Requirements	

•Socia	al and	Self-Awareness and Responsible Citizenship
COM	260	Communication Ethics
	or	
POL	140	American National Government
ECO	230	Principles of Macroeconomics
Univ	ersity	Studies Electives
ECO	231	Principles of Microeconomics
FIN	230	Personal Finance
Agricu	ılture	Core Courses26 hrs
AGR	100T	Transitions
AGR	100	Animal Science
AGR		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
AGR	599	Agriculture Senior Capstone
_		s Track
ACC		Principles of Accounting I
AGR	328	Statistics for Food and Agriculture
СТА	or 125	Introduction to Drobability and Statistics
STA		•
AGR		Principles of Agribusiness
AGR	336	Agricultural Marketing and Price Analysis
AGR	337	Agricultural Sales and Merchandising
		•
AGR AGR	531	Agricultural Policy
AGN	552	Agricultural Policy
Reaui	rad Sı	upport Courses 15 hrs
-		of the following support course emphases.
C//003	c one	of the following support course emphases.
Crop F	Produ	ction Emphasis
AGR		Crop Management
AGR		Weeds and their Control
and th		f the following: AGR 455, 470, 471, 542, 546, or 555.
	,	, , . , . , . , ,
Entre	orene	urship Emphasis
AGR	334	Entrepreneurship in Agribusiness
MGT	350	Fundamentals of Management
MGT	358	Entrepreneurial Business Plan Development
Upper	-level	, advisor approved electives (6 hrs)
Globa	l Emp	hasis
		Principles of Marketing
MKT	568	Global Marketing Management
Choos	e thre	e of the following:
AGR	353	World Food, Agriculture and Society
AGR		International Trade and Agriculture
AGR		Seminar in International Agriculture Systems
Three	hours	s of foreign language
		Management Emphasis
		Fundamentals of Management
MKT		Principles of Marketing
FIN		Principles of Finance
Upper	-Ievel	, advisor approved electives (6 hrs)

Unrestricted Electives14-15 hrs1 Total Curriculum Requirements 120 hrs 1Students wishing to qualify for admission to Murray State's Master of Business Administration (MBA) program should chose the following courses as part of the Unrestricted Electives requirement: ACC 201, BUS 355, CIS 443, MAT 220. AREA: **Bachelor of Science in Agriculture Degree** Agricultural Science/Agricultural Systems Technology Track CIP 01.9999 University Studies Requirements 40-41 hrs (See Academic Degrees and Programs.) University Studies selections must include: • Global Awareness, Cultural Diversity and the World's Artistic Traditions 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 •Scientific Inquiry, Methodologies, and Quantitative Skills BIO 101 Biological Concepts CHE 105 Introductory Chemistry I MAT 130 Technical Math I or MAT 140 College Algebra Social and Self-Awareness and Responsible Citizenship AGR 199 Contemporary Issues in Agriculture¹ University Studies Electives CHE 210/215 Brief Organic Chemistry and Organic Chemistry Laboratory 199 Earth Science GSC or PHY 130 General Physics I 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 Agriculture¹ AGR 339 Computer Applications for Agriculture AGR 345 Soil Science AGR 399 Professional Development Seminar I AGR 599 Agriculture Senior Capstone Agriculture Systems Technology Track...... 24 hrs AGR 371 Agricultural Buildings and Construction AGR 372 Agricultural Metal Processes AGR 377 Agriculture Safety AGR 477 Agricultural Power Units AGR 577 Tractor Power Principles AGR elective (3 hrs) Choose nine hours from the following: AGR 379 Field Equipment Technology Management AGR 470 Soil and Water Engineering AGR 471 Applications in Precision Agriculture AGR 488 Cooperative Education/Internship AGR 489 Cooperative Education/Internship AGR 551 Selected Studies in Agriculture AGR 570 Ag Systems Technology Lab Management

AGR		Advanced Precision Agriculture	
		Advanced Metal Work	
		Agriculture Processing Systems	
		Agricultural Irrigation and Water	
AGR		Combine and Grain Handling Systems	
AGR		Agriculture Electrification Systems	
AGR	5/8	Research and Development of Agriculture Tractors and Equipment	
		urses 6 hrs	
AGR	471	Applications in Precision Agriculture	
AGR	488	Cooperative Education/Internship	
or sel	ect fro	om the following:	
AGR	489	Cooperative Education/Internship	
AGR		Advanced Precision Agriculture	
TSM		Electrical Systems I	
ITD		CAD Applications	
ITD		Computer-Aided Design	
ITD		Introduction to Technical Drawing and Computer Aided Drafting	
ITD	330	Machine Tool Processes	
Unre	stricte	d Electives 23-24 hrs	
		culum Requirements	
ARE	ΞΛ.		Pachalar of Science in Agricultura Dograce
		tural Science/Agronomy Track	Bachelor of Science in Agriculture Degree CIP 01.9999
		Studies Requirements42 hrs	
(See /	Acade	mic Degrees and Programs.)	
Unive	ersity S	Studies selections must include:	
		vareness, Cultural Diversity and the World's Artistic Traditions	
		of the following:	
		International Agricultural Experience	
		World Food, Agriculture and Society	
SPA		Basic Spanish and Culture for Agriculture	
•Scie		Inquiry, Methodologies, and Quantitative Skills	
BIO		Botany: Plant Form and Function	
CHE		Introductory Chemistry I	
MAT	140	College Algebra	
MAT	140 al and		
•Soci	140 al and	College Algebra I Self-Awareness and Responsible Citizenship	
•Soci	140 al and 103 or	College Algebra I Self-Awareness and Responsible Citizenship	
MAT •Soci BIO	140 f al and 103 or 140	College Algebra I Self-Awareness and Responsible Citizenship Saving Planet Earth	
•Soci BIO POL AGR	140 fal and 103 or 140 199	College Algebra I Self-Awareness and Responsible Citizenship Saving Planet Earth American National Government	
MAT •Soci BIO POL AGR •Univ	140 fal and 103 or 140 199 versity	College Algebra I Self-Awareness and Responsible Citizenship Saving Planet Earth American National Government Contemporary Issues in Agriculture ¹	
MAT •Soci BIO POL AGR •Univ	140 fal and 103 or 140 199 versity 210	College Algebra I Self-Awareness and Responsible Citizenship Saving Planet Earth American National Government Contemporary Issues in Agriculture ¹ I Studies Electives	
MAT •Soci BIO POL AGR •Univ	140 al and 103 or 140 199 versity 210 215	College Algebra I Self-Awareness and Responsible Citizenship Saving Planet Earth American National Government Contemporary Issues in Agriculture ¹ I Studies Electives Brief Organic Chemistry	
POL AGR • Unit CHE CHE GSC	140 fal and 103 or 140 199 versity 210 215 199	College Algebra I Self-Awareness and Responsible Citizenship Saving Planet Earth American National Government Contemporary Issues in Agriculture ¹ I Studies Electives Brief Organic Chemistry Organic Chemistry Laboratory Earth Science	
POL AGR •Unit CHE CHE GSC	140 103 or 140 199 versity 210 215 199 ulture	College Algebra I Self-Awareness and Responsible Citizenship Saving Planet Earth American National Government Contemporary Issues in Agriculture ¹ I Studies Electives Brief Organic Chemistry Organic Chemistry Laboratory	
MAT • Soci BIO POL AGR • Univ CHE CHE GSC Agric AGR	140 103 or 140 199 versity 210 215 199 ulture	College Algebra I Self-Awareness and Responsible Citizenship Saving Planet Earth American National Government Contemporary Issues in Agriculture ¹ I Studies Electives Brief Organic Chemistry Organic Chemistry Laboratory Earth Science Core Courses	
POL AGR • Unit CHE GSC Agric AGR AGR	140 103 or 140 199 versity 210 215 199 ulture 1007	College Algebra I Self-Awareness and Responsible Citizenship Saving Planet Earth American National Government Contemporary Issues in Agriculture ¹ I Studies Electives Brief Organic Chemistry Organic Chemistry Laboratory Earth Science Core Courses	
MAT • Soci BIO POL AGR • Unit CHE CHE GSC Agric AGR AGR AGR	140 103 or 140 199 versity 210 215 199 ulture 1001 100 130	College Algebra I Self-Awareness and Responsible Citizenship Saving Planet Earth American National Government Contemporary Issues in Agriculture ¹ I Studies Electives Brief Organic Chemistry Organic Chemistry Laboratory Earth Science Core Courses	
MAT • Soci BIO POL AGR • Unit CHE CHE GSC Agric AGR AGR AGR	140 103 or 140 199 210 215 199 ulture 1007 100 130 133	College Algebra I Self-Awareness and Responsible Citizenship Saving Planet Earth American National Government Contemporary Issues in Agriculture ¹ I Studies Electives Brief Organic Chemistry Organic Chemistry Laboratory Earth Science Core Courses	
MAT • Soci BIO POL AGR • Unit CHE CHE GSC Agric AGR AGR AGR AGR	140 103 or 140 199 210 215 199 ulture 1007 100 130 133	College Algebra I Self-Awareness and Responsible Citizenship Saving Planet Earth American National Government Contemporary Issues in Agriculture ¹ I Studies Electives Brief Organic Chemistry Organic Chemistry Laboratory Earth Science Core Courses	
POL AGR • Unit CHE CHE GSC AGR AGR AGR AGR AGR	1400 1030 or 1400 215 199 ulture 1000 1300 1333 1600 or	College Algebra I Self-Awareness and Responsible Citizenship Saving Planet Earth American National Government Contemporary Issues in Agriculture ¹ I Studies Electives Brief Organic Chemistry Organic Chemistry Laboratory Earth Science Core Courses	
POL AGR • Unit CHE CHE GSC AGR AGR AGR AGR AGR	140 103 or 140 199 versity 210 215 199 ulture 100 130 133 160 or 240	College Algebra I Self-Awareness and Responsible Citizenship Saving Planet Earth American National Government Contemporary Issues in Agriculture ¹ I Studies Electives Brief Organic Chemistry Organic Chemistry Laboratory Earth Science Core Courses	
MAT •Soci BIO POL AGR •Unin CHE CHE GSC Agric AGR AGR AGR AGR AGR AGR	140 103 or 140 199 versity 210 215 199 ulture 100 130 133 160 or 240 170	College Algebra I Self-Awareness and Responsible Citizenship Saving Planet Earth American National Government Contemporary Issues in Agriculture ¹ I Studies Electives Brief Organic Chemistry Organic Chemistry Laboratory Earth Science Core Courses	
POL AGR • Unit CHE GSC Agric AGR AGR AGR AGR AGR AGR	140 103 or 140 199 versity 199 100 130 133 160 or 240 199	College Algebra I Self-Awareness and Responsible Citizenship Saving Planet Earth American National Government Contemporary Issues in Agriculture ¹ I Studies Electives Brief Organic Chemistry Organic Chemistry Laboratory Earth Science Core Courses	

AGR 399 Professional Development Seminar I AGR 599 Agriculture Senior Capstone

Agronomy Track25 hrs

AGR	346	Soil Science Laboratory	
		Agricultural Environmental Management Systems	
		Soil Management	
		Soil and Water Engineering	
		Applications in Precision Agriculture	
		Plant Breeding I	
		Integrated Pest Management	
		Crop Management Weeds and Their Control	
AGK	549	weeds and Their Control	
		of the following support course emphases.	
D 1.		t.	
		Emphasis	
		Agronomy Practicum	
		of the following: Principles of Agribusiness	
		Farm Management	
		Advanced Precision Agriculture	
AUN	3/1	Advanced Frecision Agriculture	
Resea	rch Er	mphasis	
		Statistics for Food and Agriculture	
		Advanced Precision Agriculture	
BIO		Introductory Microbiology	
Agron	omy a	advisor approved research electives (5 hrs)	
		uction Emphasis	
		Principles of Agribusiness	
		Farm Management	
		Agribusiness Records and Analysis	
AGR		Agricultural Marketing and Price Analysis	
4 C D	or	A soit and bound College and B A south an effection	
		Agricultural Sales and Merchandising	
Agron	Offig a	advisor approved electives (3 hrs)	
Unres	tricte	d Electives12 hrs	
			
Total (Curric	ulum Requirements 120 hrs	
¹AG	R 199	will fulfill both the agriculture core and university studies elective.	
ADE			
ARE		4 1 O - 1	Bachelor of Science in Agriculture Degree
Agr	ıcuı	tural Science/Horticulture Track	CIP 01.9999
Ilnivo	rcity (Studies Requirements40 hrs	
		mic Degrees and Programs.)	
(000)		me begreee and reagramer,	
Unive	rsity S	Studies selections must include:	
Glob	al Aw	vareness, Cultural Diversity and the World's Artistic Traditions	
Choos	e one	of the following:	
		International Agricultural Experience	
		World Food, Agriculture and Society	
SPA		Basic Spanish and Culture for Agriculture	
		Inquiry, Methodologies, and Quantitative Skills	
		Botany: Plant Form and Function	
CHE		Consumer Chemistry	
CHF	or 105	Introductory Chemistry I	
		College Algebra	
		Self-Awareness and Responsible Citizenship	
		Contemporary Issues in Agriculture ¹	
AGK	T)		

CHE 210 Brief Organic Chemistry

and

	•	Studies Requirements40 hrs mic Degrees and Programs.)	
		tural Science	CIP 01.999
MA.	JOR		Bachelor of Science/Bachelor of Arts Degre
		will fulfill both the agriculture core and university studies elective.	
Unre	stricte	d Electives29 hrs	
AGR (electiv	es (6 hrs)	
		Plant Propagation	
		Arboriculture	
	or	•	
AGR	or 462	Fine Turf Management	
AGR		Residential Landscape Design	
AGR		Herbaceous Plant Materials	
AGR		Woody Plant Materials II	
AGR		Professional Experience in Horticulture	
AUIN	or	Hornealtare and Oreenhouse Management Fracticulii	
AGR AGR		Greenhouse Production and Management Horticulture and Greenhouse Management Practicum	
		Soil Science Laboratory Grouphouse Production and Management	
		Woody Plant Materials I	
		e Track	
AGR	599	Agriculture Senior Capstone	
AGR		Professional Development Seminar I	
AGR		Soil Science	
AGR		Computer Applications for Agriculture	
AGR	199	Contemporary Issues in Agriculture ¹	
AGR		Introduction to Agricultural Systems Technology	
AGR		Crop Science	
AUN	or	Horticultural Science	
AGR AGR		Field Applications for Agriculture Horticultural Science	
		Agricultural Economics	
		Animal Science	
		Transitions	
Agric	ulture	Core Courses 26 hrs	
GSC	199	Earth Science	
CCC	or	Fauth Cainne	
CHE	215	Organic Chemistry Laboratory	

University Studies selections must include:

• Global Awareness, Cultural Diversity and the World's Artistic Traditions

Choose one of the following:

AGR 200 International Agricultural Experience

AGR 353 World Food, Agriculture and Society

106 Basic Spanish and Culture for Agriculture

•Scientific Inquiry, Methodologies, and Quantitative Skills

BIO 101 Biological Concepts

CHE 105 Introductory Chemistry I

MAT 120 College Algebra with Business Applications

or

MAT 140 College Algebra

•Social and Self-Awareness and Responsible Citizenship

BIO 103 Saving Planet Earth

POL 140 American National Government AGR 199 Contemporary Issues in Agriculture¹

University Studies Electives

CHE 210/215 Brief Organic Chemistry and Organic Chemistry Laboratory

or

GSC 199 Earth Science

Agriculture Core Courses38 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 Agriculture¹

AGR 339 Computer Applications for Agriculture

AGR 345 Soil Science

AGR 399 Professional Development Seminar I

AGR 599 Agriculture Senior Capstone

AGR electives (12 hrs)

Required Minor21 hrs

Total Curriculum Requirements 120 hrs

¹AGR 199 will fulfill both the agriculture core and university studies elective.

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. Six hours must be upper-level courses.

Golf Course Management 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

The Master of Science in Agriculture provides concentration in agricultural science. The concentration also services agriculture education. An on-line masters is available by taking a series of advisor approved web classes. 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 60 hours of undergraduate work; and
- •The equivalent of an undergraduate area or major in agriculture is required.

Conditional

Students may be conditionally admitted according to the following requirements:

- An undergraduate GPA of at least 2.75 or a GPA of 3.0 in the last 60 hours of undergraduate work; and
- •In some cases, students without the undergraduate area or major may be admitted on the condition of significant agricultural work experience and/or complete prerequisites consisting of at least the undergraduate agriculture core courses in a respective field. The plan of study must be approved by the advisor and graduate coordinator and may allow taking of a combination of undergraduate/graduate courses concurrently.

Upon completion of nine hours of graduate work a student admitted conditionally must have a 3.0 GPA or the student will be dropped from the program. A graduate student dropped for academic reasons may reapply after withdrawal from the graduate program for one semester. Readmission decisions will be made according to the recommendation of an appointed graduate admissions committee.

Note: L=literature; R=research; PT=professional training. See page 68.

Master of Science: Agriculture

CIP 01.9999

THESIS REQUIREMENTS

Total Course Requirements......31 hours

AGR 686 Training and Presentation Development Strategies for Agricultural Audiences

AGR 713 Graduate Computer Applications^R

AGR 720 Experimental Design and Statistical Analysis

AGR 722 Graduate Capstone Seminar^{1,PT}

AGR 735 Research Methodology^L

AGR 798 Thesis^R

AGR 799 Thesis^R

Specialty...... 12 hrs

600- or 700-level, approved by faculty advisor.

The specialty area courses may be chosen, in consultation with an advisor, from courses that most effectively achieve the student's educational goals.

Other Degree Requirements

Comprehensive written examination over coursework.

¹Class must be taken during the last semester of enrollment. Each student will be expected to prepare and present one seminar based on their thesis project.

NON-THESIS REQUIREMENTS

Total Course Requirements......31 hours

AGR 686 Training and Presentation Development Strategies for Agricultural Audiences

AGR 700 Research in Agriculture^{R,1}

AGR 713 Graduate Computer Applications

AGR 720 Experimental Design and Statistical Analysis

AGR 722 Graduate Capstone Seminar^{2, PT}

AGR 735 Research Methodology^L

Specialty...... 15 hrs

600- or 700-level, approved by faculty advisor.

The specialty area courses may be chosen, in consultation with an advisor, from courses that most effectively achieve the student's educational goals.

Other Degree Requirements

Comprehensive written examination, oral examination, and research presentation.

¹Course must include a creative component or significant research report.

²Class must be taken during the last semester of enrollment. Each student will be expected to prepare and present one seminar based on their creative component, research report or work experience.

Master of Science: Agriculture/Agribusiness Economics Concentration

CIP 01.9999

NON-THESIS ONLY

Total Course Requirements......31 hours

AGR 686 Training and Presentation Development Strategies for Agricultural Audiences

AGR 700 Research in Agriculture R,1,2 (6 hrs)

AGR 713 Graduate Computer Applications

AGR 720 Experimental Design and Statistical Analysis

AGR 722 Graduate Capstone Seminar PT

AGR 735 Research Methodology L, 3

Agribusiness Economics Concentration

Select 12 hours from the following:

AGR 628 Agriculture, Food and Rural Law

AGR 631 Agricultural Finance

AGR 652 Agricultural Policy

AGR 739 Agribusiness Management

AGR 744 Graduate Cooperative Education⁴

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: ACC, AGR, COM, ECO, FIN, MGT, or MKT. Note: No more than two classes from ACC, ECO, FIN, MGT or MKT may be taken.

¹Must include a significant creative or scholarly component that will be presented as part of a student's final oral presentation. See HSOA Creative Component Guidelines for details.

²Must be taken with advisor/committee chair.

³Can be substituted with AED 735.

Master of Science: Agriculture/Agricultural Education Concentration

CIP 01.9999

NON-THESIS ONLY

Total Course Requirements......31 hours AGR 686 Training and Presentation Development Strategies for Agricultural Audiences AGR 700 Research in Agriculture R,1,2 (6 hrs) AGR 713 Graduate Computer Applications AGR 720 Experimental Design and Statistical Analysis AGR 722 Graduate Capstone Seminar^{3, PT} AGR 735 Research Methodology L, 4

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 Workshop⁵
- 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.

¹Must include a significant creative or scholarly component that will be presented as part of a student's final oral presentation. See HSOA Creative Component Guidelines for details.

²Must be taken with advisor/committee chair.

³Must be taken during semester of graduation.

⁴Can be substituted with AED 735.

Intended for current secondary agriculture teachers. Kentucky teachers should enroll 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,1,2 (6 hrs)
- AGR 713 Graduate Computer Applications
- AGR 720 Experimental Design and Statistical Analysis
- AGR 722 Graduate Capstone Seminar^{3, PT}
- AGR 735 Research Methodology^L

Sustainable Agriculture Concentration

Select 12 hours from the following:

- AGR 655 Advanced Soil Fertility4
- AGR 661 Sustainable Agriculture
- AGR 662 Principles of Agroecology
- AGR 671 Advanced Precision Agriculture
- AGR 744 Graduate Cooperative Education⁵

Advisors my 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, GSC, WSC.

¹Must include a significant creative or scholarly component that will be presented as part of a student's final oral presentation. See HSOA Creative Component Guidelines for details.

²Must be taken with advisor/committee chair.

³Must be taken during semester of graduation.

⁴See current Academic Bulletin for prerequisite requirements.

⁵Experience must be related to sustainable agriculture and approved by advisor prior to enrollment.

⁴Experience must be related to agribusiness 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,1,2 (6 hrs)

or

AGR 798/799 Thesis³ (6 hrs)

AGR 720 Experimental Design and Statistical Analysis

AGR 722 Graduate Capstone Seminar PT

AGR 735 Research Methodology^L

Veterinary Hospital Management Concentration

AGR 680 Veterinary Products

AGR 682 Veterinary Practice and Operations

AGR 683 Veterinary Law and Ethics

AGR 713 Graduate Computer Applications

MGT 654 Seminar in Human Resource Management

600-700 level elective in AGR, BUS, MGT, MKT, or Human Resources

Students completing this degree will also receive the Veterinary Hospital Management Certificate.

¹Must include a significant creative or scholarly component that will be presented as part of a student's final oral presentation. See HSOA Creative Component Guidelines for details.

²Must be taken with advisor/committee chair.

Students who plan to pursue a terminal degree are encouraged to enroll in AGR 798/799 in lieu of AGR 700.

⁴Must be taken during semester of graduation.

Department of Animal and Equine Science

212 Oakley Applied Science South 270-809-3327

Interim Head: O.L. Robertson. Faculty: Atkerson, Conover, Davis, Porr, Robertson, Robinson, A. Shultz, Van Hooser.

The Department of Animal and Equine Science offers a Bachelor of Science in Agriculture degree with three emphases: (1) food animal emphasis and (2) equine science emphasis and (3) equine management. The department also offers a minor in equine science. Career preparations include the scientific study of feeding, breeding, management and marketing of animals and their products along with the multitude of related businesses and industries.

Facilities for animal and equine science include an equine center, rodeo facilities, and a beef cattle complex including a registered Angus herd and stocker calf intensive grazing systems.

AREA:

Animal Technology/Animal/Equine Science Track

Bachelor of Science in Agriculture Degree
CIP 51.0808

University Studies Requirements...... 40-41 hrs

(See Academic Degrees and Programs.)

University Studies selections must include:

• Scientific Inquiry, Methodologies, and Quantitative Skills

BIO 101 Biological Concepts

or

BIO 221 Zoology: Animal Form and Function

MAT 140 College Algebra

and one of the following:

CHE 101 Consumer Chemistry

CHE 105 Introductory Chemistry I

CHE 201 General College Chemistry

•Social and Self-Awareness and Responsible Citizenship

AGR 199 Contemporary Issues in Agriculture

•University Studies Electives

Choose one of the following:

CHE 210/215 Brief Organic Chemistry and Organic Chemistry Laboratory

CHE 202 General Chemistry and Qualitative Analysis

GSC 101 The Earth and the Environment

GSC 102 Earth Through Time

GSC 199 Earth Science

Agric	ulture	Core Courses24 hrs
AGR	100T	Transitions
		Animal Science
		Principles of Animal Nutrition
		Applications in Animal Technology
		Computer Applications for Agriculture
		Professional Development Seminar I
AGR	504	Diseases of Livestock
AGR		Agriculture Senior Capstone
		the following:
		Introduction to Agricultural Systems Technology
		Agriculture Safety
		Animals Emergency Preparedness
	_	the following:
		Equine Reproduction
		Reproductive Physiology
AGR	523	Artificial Insemination Techniques for Cattle
-		nphasis Courses23-24 hrs
		al Emphasis
		Agricultural Economics Field Applications for Agriculture
		Crop Science
		Soil Science
		the following:
		Beef Science
		Poultry Science
		Veterinary Diagnostic Imaging
AGR		Swine Science
		the following:
		Livestock Judging and Evaluation
		Livestock Production Management Systems
AGR		Livestock Behavioral Analysis
		Advanced Livestock Judging
and o	ne of t	the following:
AGR	502	Advanced Nutrition
AGR	503	Genetics and Animal Breeding
AGR	512	Beef Cattle Management Systems
Equin	e Mar	nagement Emphasis
AGR	101	Basic Stock Seat Horsemanship
	or	
AGR	111	Basic Forward Seat Equitation
AGR	130	Agricultural Economics
AGR	133	Field Applications for Agriculture
AGR	201	Intermediate Horsemanship
AGR	302	
AGR	309	Equine Facility Management
4.00	or	5 : 11 11 0 114
AGR	317	Equine Health Care and Management
AGR	318 or	Equine Forage Management
AGR	319	Equine Nutrition and Feeding
		the following:
AGR	-	Advanced Stock Seat
AGR		Advanced Stock Seat Advanced Forward Seat
AGR		Equine Behavior Modification
AGR		Teaching Students Horsemanship
-		nce Emphasis
AGR	101	Basic Stock Seat Horsemanship
AGR	or 111	Basic Forward Seat Equitation
, , , , , , ,		200.0 . Or war a Seat Equitation

AGR 130 Agricultural Economics

AGR	302	Horse Science
AGR	303	Advanced Horse Science
AGR	309	Equine Facility Management
	or	
AGR	317	Equine Health Care and Management
AGR	315	Equine Exercise Physiology
AGR	318	Equine Forage Management
	or	

AGR 319 Equine Nutrition and Feeding

AGR 407 Equine Selection and Evaluation

Required Support Courses 12 hrs

Choose the following support courses for the equine management or equine science emphases only:

Equine Management

AGR 330 Principles of Agribusiness

AGR 333 Agribusiness Records and Analysis

AGR 433 Farm Management

MGT 350 Fundamentals of Management

Equine Science

AGR 133 Field Applications for Agriculture

AGR 240 Crop Science

AGR 345 Soil Science

AGR 328 Statistics for Food and Agriculture

Total Curriculum Requirements 120 hrs

Equine Science Minor21 hrs

Program must include 15 hours of required courses: AGR 101 or 111; and AGR 201, 302, 303, and 317. Six additional hours of upper-level equine courses must be.

Department of Veterinary Technology and Pre-Veterinary Medicine

A. Carman Animal Health Technology Center 270-809-7001

Head: Terry Canerdy. Faculty: Canerdy, DeWees, Doom, Hoffman, Jones, Papajeski, Provine.

The Veterinary Technology Program at Murray State University is one of only 22 schools in the nation that offers a fully accredited bachelor of science degree in the area of veterinary technology. Students are also given the track to complete the prerequisite courses required by any of the thirty veterinary schools in the U.S. The program involves hands-on experience with many animal species including small, large, and exotic animals. The program has been continually accredited by the American Veterinary Medical Association (AVMA) since 1986. Facilities for the Veterinary Technology/Pre-Veterinary Medicine program include classrooms and laboratories at the A. Carman Animal Health Technology Center and the university farms. This program is not only academically challenging, but provides students the opportunity to gain valuable hands-on experience.

A portion of the veterinarian technology curriculum will involve students taking courses, which have been labeled the BVC (Breathitt Veterinary Center) courses. The BVC courses include AGR 340, AGR 400, AGR 410, AGR 420, and AGR 430. BVC courses must be taken together in one semester. Because the Veterinary Technology/Pre-Veterinary Medicine program is an accredited program, available space is limited to ensure the quality of instruction. Registration in BVC courses is based on available openings. The veterinary technology program will make every effort to ensure that students who need BVC courses will be placed, but no guarantee is made that the student will be enrolled during the preferred semester. Applications are due February 1st for the fall term and September 1st for the spring term. Once completed applications are reviewed, students will be notified of their placement into BVC courses by March 1st for the fall semester and October 1st for the spring semester.

The following prerequisites are required for the BVC classes: AGR 310, AGR 322, AGR 332, and eight hours of chemistry. The student must have a grade of *C* or higher in these courses before being considered. After the prerequisites have been evaluated, the following criteria will be reviewed in order to determine the student's placement into the BVC courses:

- Completed applications were submitted by the appropriate deadline.
- BVC courses are the ONLY classes remaining.
- BVC courses plus one other course are the only classes remaining.
- Unavoidable course conflicts will be evaluated on a case by case basis.
- Once the placed students are enrolled any space available will be given to students on a first come basis.

The following courses are required by the American Veterinary Medical Association for Veterinary Technician certification: AGR 310, 322, 324, 331, 332, 340, 400, 410, 420, 430, 504, 506, 510, 511, 540, 550, 590, and 599.

AREA: Animal Technology/Veterinary Technology Track ACCREDITED BY: American Veterinary Medical Association University Studies Requirements 41 hrs (See Academic Degrees and Programs.) University Studies selections must include: Scientific Inquiry, Methodologies, and Quantitative Skills BIO 101 Biological Concepts CHE 105 Introductory Chemistry I MAT 140 College Algebra •Social and Self-Awareness and Responsible Citizenship AGR 199 Contemporary Issues in Agriculture Ethics, Social Responsibility and Civic Engagement sub-category elective • University Studies Electives CHE 210 Brief Organic Chemistry CHE 215 Organic Chemistry Laboratory Agriculture Core Courses24 hrs AGR 100T Transitions AGR 100 Animal Science AGR 300 Principles of Animal Nutrition AGR 310 Applications in Animal Technology AGR 339 Computer Applications for Agriculture AGR 399 Professional Development Seminar I AGR 504 Diseases of Livestock1 AGR 599 Agriculture Senior Capstone and one of the following: AGR 170 Introduction to Agricultural Systems Technology AGR 377 Agriculture Safety AGR 375 Animals Emergency Preparedness and one of the following: AGR 403 Equine Reproduction AGR 506 Reproductive Physiology AGR 523 Artificial Insemination Techniques for Cattle Veterinary Technology Track¹...... 22 hrs AGR 322 Introduction to Veterinary Laboratory I AGR 324 Veterinary Diagnostic Imaging AGR 329 Introductory Veterinary Laboratory II AGR 332 Veterinary Nursing AGR 510 Animal Anatomy and Physiology AGR 540 Veterinary Surgery and Anesthesia AGR 489 Cooperative Education/Internship AGR 590 Internship in Animal Technology Required Support Courses 30-31 hrs Choose one of the following support courses emphases: **Veterinary Technology Emphasis** AGR 331 Small Animal Diseases AGR 340 Veterinary Laboratory Sciences AGR 400 Veterinary Microbiology¹ AGR 410 Advanced Veterinary Hematology¹

Bachelor of Science in Agriculture Degree

CIP 51.0808

AGR 420 Veterinary Clinical Chemistry¹

AGR 430 Veterinary Parasitology¹

AGR 511 Animal Anatomy and Physiology Laboratory¹

AGR 550 Applied Pharmacology¹

Approved Electives (6 hrs)

al Emphasis
al Emphasis Livestock Production Management Systems
Veterinary Laboratory Sciences
Veterinary Microbiology ¹
Advanced Veterinary Hematology
Veterinary Clinical Chemistry
Veterinary Parasitology
Animal Anatomy and Physiology Laboratory
Applied Pharmacology
e - Animal Science or Animal Health Technology
the following:
Horse Science
Beef Science
Swine Science
Animal Health Technology Emphasis
Small Animal Diseases
Veterinary Laboratory Sciences
Veterinary Microbiology ¹
Advanced Veterinary Hematology
Veterinary Clinical Chemistry
Veterinary Parasitology
Animal Anatomy and Physiology Laboratory
Applied Pharmacology
lective (3 hrs)
the following:
Ichthyology
Herpetology
Ornithology
Mammalogy
d Electives
by American Veterinary Medical Association for certification.
Bachelor of Science in Agriculture Degree Technology/Veterinary Technology/Pre-Veterinary Medicine Track CIP 51.0808
Teelinelegy/reterinary reclinelegy/ric veterinary incure ridek
D BY: American Veterinary Medical Association
Studies Requirements 44 hrs
mic Degrees and Programs.)
Studies selections must include:
Inquiry, Methodologies, and Quantitative Skills
Biological Concepts
General College Chemistry
Algebra and Trigonometry
I Self-Awareness and Responsible Citizenship
Ethics
American National Government
General Psychology
istorical, Literary, and Philosophical Traditions

Agriculture Core Courses24 hrs

 $\textbf{Note:} \ \textbf{3rd year Veterinary School Applicants must also take HUM 212 and English Literature}.$

CHE 202 General Chemistry and Qualitative Analysis

AGR 100T Transitions AGR 100 Animal Science

CIV 201 World Civilizations I • *University Studies Electives*

CIV 202 World Civilizations II

AGR 300 Principles of Animal Nutrition

			Graduate Program	
	Total Curriculum Requirements 120 hrs			
	Unrestricted Electives 4 hrs			
	BIO	321	Cell Biology	
			General Physics I Laboratory	
			General Physics I	
	CHE		Basic Biochemistry	
	CHE		Organic Chemistry II	
	CHE		Organic Chemistry I	
	BIO		Zoology: Animal Form and Function	
	AGR		Small Animal Diseases	
Required Support Courses25 hrs				
			,	
	BIO	300		
	AGR		Internship in Animal Technology	
	,	or	asspersarie Education, internating	
	AGR		Cooperative Education/Internship	
			Applied Pharmacology	
			Animal Anatomy and Physiology	
	_		Veterinary Diagnostic Imaging Veterinary Nursing	
	AGR AGR		Introductory Veterinary Laboratory I	
			ary Medicine Track	
	D., - 1.		one Madisine Treats	
	AGR	523	Artificial Insemination Techniques for Cattle	
			Reproductive Physiology	
			Equine Reproduction	
and one of the following:				
			Animals Emergency Preparedness	
			Agriculture Safety	
	AGR	170	Introduction to Agricultural Systems Technology	
and one of the following:				
	AGR	599	Agriculture Senior Capstone	
			Diseases of Livestock	
			Professional Development Seminar I	
			Computer Applications for Agriculture	
	AGR	310	Applications in Animal Technology	

<u>Graduate Program</u>

The Certificate in Veterinary Hospital Management is designed to complement the undergraduate and graduate professional degree programs. The program's objectives are to provide students with opportunities to expand their knowledge in veterinary technology, to explore the business operation of a veterinary clinic, and to experience how the combination of their academic undergraduate and certificate course work can complement their job search.

CERTIFICATE: CIP 51.0808

Veterinary Hospital Management

Requirements for Admission

Students who hold an undergraduate degree in veterinary technology or are currently enrolled in a graduate program may apply for acceptance to the Certificate in Veterinary Hospital Management program. Persons who already hold a graduate degree may also apply for the program.

Applicants must comply with the Murray State University requirements (see Graduate Admissions).

- For unconditional admission, an undergraduate GPA of 3.0 or higher.
- For conditional admission, judgement will be determined by probable success based on 1) Graduate Record Examination scores, 2) letters of recommendation, and/or 3) other evidence such as a planned program of prerequisite courses.

Total Course Requirements......18 hours

- AGR 680 Veterinary Products
- AGR 682 Veterinary Practice and Operations
- AGR 683 Veterinary Law and Ethics
- AGR 713 Graduate Computer Applications
- MGT 654 Seminar in Human Resource Management

600-level elective in AGR, BUS, MGT, MKT or human resources.