

School of Agribusiness and Agriscience

Warren Gill, Director
Stark Agribusiness and Agriscience Center 100

Anderson, Brzezicki, Carter, Downs, Gardner, Haffner, Hoffman,
 Johnston, Kayser, Neely, Phillips, Redd, Ricketts, Whitaker

Programs in the School of Agribusiness and Agriscience lead to the Bachelor of Science degree with majors in Agribusiness, Animal Science, and Plant and Soil Science. A concentration in Horse Science is available in the Animal Science major. Certification in Agricultural Education is available in each of the three majors. Preparatory programs are also offered for additional study in agricultural engineering, forestry, and veterinary medicine. A minor in Agriculture is available.

A major in the School of Agribusiness and Agriscience requires a minimum of 43 semester hours of courses to include

- 21 hours in the major area;
- an additional six (6) hours from ABAS as indicated under each major's requirements; and
- a general core of ABAS 1000, 1410, 1610, 2210, 3010, and 4100. (ABAS 3010 not required for majors taking YOED 4110 or participating in judging teams.)

A minor from another department is required.

Specific course requirements for each major are listed below in the curriculum of that major.

The School of Agribusiness and Agriscience participates in an interdisciplinary major in Environmental Science and Technology in conjunction with Biology, Chemistry, Engineering Technology, and Geosciences. A complete description of this program is found on page 80.

Curricular listings include General Education requirements in Communication, History, Humanities and/or Fine Arts, Mathematics, Natural Sciences, and Social/Behavioral Sciences categories as outlined on pages 64–67.

Major in Agribusiness

The program leading to a major in Agribusiness is designed for students who are interested primarily in the non-farm phases of agriculture. Specific course requirements are

FRESHMAN		SOPHOMORE	
ABAS 1000, 1410, 1610	7	ABAS 2130, 2210	6
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
BIOL 1030/1031 (Nat Sci)	4	HUM 2610 (Hum/FA)	3
Mathematics	3-4	COMM 2200 (Comm)	3
Humanities and/or Fine Arts	3	Humanities and/or Fine Arts	3
Social/Behavioral Sciences	3	PSCI 1030/1031 (Nat Sci)	4
Elective	3	ECON 2410 (Soc/Beh Sci)	3
	29-30	HIST 2010, 2020, or 2030	6
		Elective	2-3
			30-31
JUNIOR		SENIOR	
ABAS 3130, 3010*	6	ABAS 4100	3
Animal Science elective	3	ABAS 4150 or 4190	3
Agribusiness electives	6	Agribusiness electives**	6
Upper-division electives	6	Minor requirements	12
Plant and Soil Science		Upper-division electives	6
elective	3		30
Minor requirements	6		
	30		

*Students taking YOED 4110 or participating in judging teams may substitute ABAS 4480 or 4590.

**Internship courses may not be used to fulfill this requirement.

Certification in Agricultural Education

Agribusiness majors seeking certification to teach agricultural education in secondary schools (grades 7-12) must complete (1) the Agribusiness major, (2) a minor in Secondary Education, and (3) professional agricultural education courses. Specific course requirements are

FRESHMAN		SOPHOMORE	
ABAS 1000, 1410, 1610, 2230	10	ABAS 3440, 3600	6
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or	
BIOL 1030/1031 (Nat Sci)	4	HUM 2610 (Hum/FA)	3
Mathematics	3-4	Social/Behavioral Sciences	3
Humanities and/or Fine Arts	3	PSCI 1030/1031 (Nat Sci)	4
FOED 1110\$	3	Humanities and/or Fine Arts	3
	29-30	ECON 2410 (Soc/Beh Sci)	3
		HIST 2010, 2020, or 2030	6
		FOED 2110\$	3
			31
JUNIOR		SENIOR	
ABAS 2210, 3130, 3340	9	Agribusiness electives*	12
COMM 2200 (Comm)	3	Secondary Education minor\$	15
ABAS 4210, 4220, 4230	9	ABAS 4250	3
ABAS 4150 or 4190	3		30
Secondary Education minor\$	6		
Elective	0-1		
	30-31		

*Internship courses may not be used to fulfill this requirement.

\$Please see Department of Educational Leadership on page 166 for Secondary Education minor requirements.

Major in Animal Science

The program leading to a major in Animal Science is designed to offer preparation for leadership careers in livestock and related industries. Specific course requirements are

FRESHMAN		SOPHOMORE	
ABAS 1000, 1410, 1610	7	ABAS 2210	3
ENGL 1010, 1020 (Comm)	6	COMM 2200 (Comm)	3
BIOL 1110/1111 (Nat Sci)	4	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
BIOL 1120/1121	4	CHEM 1010/1011 (Nat Sci)	4
Mathematics	3-4	CHEM 1020/1021	4
Humanities and/or Fine Arts	3	Social/Behavioral Sciences	3
Social/Behavioral Sciences	3	Humanities and/or Fine Arts	3
	30-31	HIST 2010, 2020, or 2030	6
			29
JUNIOR		SENIOR	
ABAS 3130; 3340 or 4310	6	ABAS 4410, 4510	6
ABAS 3010*	3	Animal Science electives**	6
ABAS 4100, 3440, 3420	9	Minor requirements	6
Minor requirements	12	Upper-division electives	9-10
	30	Animal Science/Agribusiness elective	3
			30-31

*Students taking YOED 4110 or participating in judging teams may substitute ABAS 4480 or 4590.

**Electives must come from the following courses: ABAS 3430, 3470, 3480, 3490, 3500, 3540, 4090, 4470, 4520, 4860.

Certification in Agricultural Education

Animal Science majors seeking certification to teach agricultural education in secondary schools (grades 7-12) must complete (1) the Animal Science major, (2) a minor in Secondary Education, and (3) professional agricultural education courses. Specific course requirements are

FRESHMAN		SOPHOMORE	
ABAS 1000, 1410, 1610, 2230	10	ABAS 2210, 3130, 3440	9
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
BIOL 1030/1031 (Nat Sci)	4	Social/Behavioral Sciences	3
Mathematics	3-4	PSCI 1030/1031 (Nat Sci)	4
Humanities and/or Fine Arts	3	Humanities and/or Fine Arts	3
Social/Behavioral Sciences	3	HIST 2010, 2020, or 2030	6
FOED 1110§	3	FOED 2110§	3
	32-33		31
JUNIOR		SENIOR	
ABAS 3340, 3420, 4410, 4510	12	ABAS 4250, 3600	6
COMM 2200 (Comm)	3	Animal Science electives*	6
ABAS 4210, 4220, 4230	9	Secondary Education minor§	15
Secondary Education minor§	6		27
	30		

*Electives must come from the following courses: ABAS 3430, 3470, 3480, 3490, 3500, 3540, 4090, 4470, 4520, 4860.

§Please see Department of Educational Leadership on page 166 for Secondary Education minor requirements.

Concentration: Horse Science

The Horse Science concentration is designed to meet the needs of persons majoring in Animal Science who wish to emphasize horse science and related courses. Specific requirements are

FRESHMAN		SOPHOMORE	
ABAS 1000, 1410, 1610	7	ABAS 2400	3
ENGL 1010, 1020 (Comm)	6	COMM 2200 (Comm)	3
BIOL 1110/1111 (Nat Sci)	4	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
BIOL 1120/1121	4	CHEM 1010/1011 (Nat Sci)	4
Mathematics	3-4	CHEM 1020/1021	4
Humanities and/or Fine Arts	3	Humanities and/or Fine Arts	3
Social/Behavioral Sciences	3	Social/Behavioral Sciences	3
	30-31	HIST 2010, 2020, or 2030	6
			29
JUNIOR		SENIOR	
ABAS 3010 or 4100*	3	ABAS 3040 or 3430	3
ABAS 3130, 3300	6	ABAS 3410, 4480	6
ABAS 3340 or 4310	3	ABAS 4090 or 4440	3
ABAS 2210, 3440	6	ABAS 4040, 4170, 4450, 4460, or 4540	3-4
Minor requirements	12	Minor requirements	6
	30	Upper-division electives	8-9
			30

*Students taking YOED 4110 or participating in judging teams may substitute ABAS 4480 or 4590.

Major in Plant and Soil Science

The program leading to a major in Plant and Soil Science is designed for students interested in agronomy, horticulture, and/or soil sciences. Students may choose to concentrate on either one of these areas within this major. Specific course requirements are

FRESHMAN		SOPHOMORE	
ABAS 1000, 1410, 1610	7	ABAS 2210	3
ENGL 1010, 1020 (Comm)	6	COMM 2200 (Comm)	3
BIOL 1110/1111 (Nat Sci)	4	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
BIOL 1120/1121	4	CHEM 1010/1011 (Nat Sci)	4
Mathematics	3-4	CHEM 1020/1021	4
Humanities and/or Fine Arts	3	Social/Behavioral Sciences	3
Social/Behavioral Sciences	3	Humanities and/or Fine Arts	3
	30-31	HIST 2010, 2020, or 2030	6
			29
JUNIOR		SENIOR	
ABAS 3010*, 3340	6	ABAS 3130, 4100	6
Agribusiness elective	3	Plant and Soil Science electives	9
Plant and Soil Science electives	9	Minor requirements	6
Minor requirements	12	Upper-division electives	10
	30		31

*Students taking YOED 4110 or participating in judging teams may substitute ABAS 4480 or 4590.

Certification in Agricultural Education

Plant and Soil Science majors seeking certification to teach agricultural education in secondary schools (grades 7-12) must complete (1) the Plant and Soil Science major, (2) a minor in Secondary Education, and (3) professional agricultural education courses. Specific course requirements are

FRESHMAN		SOPHOMORE	
ABAS 1000, 1410, 1610, 2230	10	ABAS 2210, 3440, 3600	9
ENGL 1010, 1020 (Comm)	6	ENGL 2020 or 2030 or HUM 2610 (Hum/FA)	3
BIOL 1030/1031 (Nat Sci)	4	Social/Behavioral Sciences	3
Mathematics	3-4	PSCI 1030/1031 (Nat Sci)	4
Humanities and/or Fine Arts	3	Humanities and/or Fine Arts	3
Social/Behavioral Sciences	3	HIST 2010, 2020, or 2030	6
FOED 1110\$	3	FOED 2110\$	3
	32-33		31

JUNIOR		SENIOR	
ABAS 3130, 3340, 4250	9	Plant and Soil Science electives	12
COMM 2200 (Comm)	3	Secondary Education minor\$	15
ABAS 4210, 4220, 4230	9		27
Secondary Education minor\$	6		
Elective	0-1		
Plant and Soil Science elective	3		
	30-31		

For certification to teach agriscience, students should see advisor.

\$Please see Department of Educational Leadership on page 166 for Secondary Education minor requirements.

Minor

A minor in Agriculture consists of 18 semester hours, with at least 3 hours at the upper-division level, selected with the approval of the school director.

Pre-Agricultural Engineering

A two-year pre-agricultural engineering program is offered by cooperative agreement with the University of Tennessee and requires two years of study at that school to meet the requirements for a Bachelor of Science degree in agricultural engineering. These courses also may be transferred to programs at other universities.

FRESHMAN		SOPHOMORE	
English 1010, 1020	6	MATH 3110, 3120	7
CHEM 1110/1111, 1120/1121	8	PHYS 2110/2111	4
MATH 1910, 1920	8	ET 3830, 3840	6
ET 2310, 3360	6	ET 3860, 4970	6
ET 1840	3	ABAS 1610, 3340	6
	31	COMM 2200	3
			32

JUNIOR

Other courses that could be taken at MTSU and transferred include			
HIST 2010, 2020	6	MATH 2010	3
Sociology or Psychology	3	ECON 2410	3

Pre-Forestry

A two-year pre-forestry program is offered by cooperative agreement with the University of Tennessee which offers two curricula in forestry:

1. Forest Resource Management
2. Wildlife and Fisheries Science

Two years of additional study are necessary to meet the requirements for a Bachelor of Science degree in forestry. These courses also may be transferred to programs in other universities.

FRESHMAN		SOPHOMORE	
BIOL 1110/1111, 1120/1121	8	CHEM 1010/1011, 1020/1021	8
ENGL 1010, 1020	6	GEOL 1040/1041	4
ABAS 1610	3	ECON 2410, 2420	6
ABAS 3630	3	Literature	3
MATH 1710, 1720	6	MATH 1530	3
PHYS 1300	3	ABAS 3340	3
COMM 2200	3	CSCI 1150	3
	32		30

Preparation for Studying Veterinary Medicine

Students who wish to pursue studies in veterinary medicine should follow the appropriate catalog requirements at institutions offering advanced degrees in the field. The following curriculum will enable a student to continue in a standard veterinary curriculum to complete work for a degree in veterinary medicine:

ENGL 1010, 1020	6
CHEM 1110/1111, 1120/1121	8
BIOL 1110/1111, 1120/1121	8
Humanities and Social Science*	18
PHYS 2010/2011, 2020/2021	8
CHEM 3010/3011, 3020/3021	8
BIOL 3250/3251, 4210/4211**	8
CHEM 3530/3531	4
Math***	0-6
	68-74

*May include English literature, speech, music, art, philosophy, religion, language, history, economics, anthropology, medical vocabulary, political science, psychology, sociology, and geography.

**Should have had organic chemistry plus BIOL 1110/1111, 1120/1121, and 3250/3251 prior.

***MATH 1710 and/or 1720 should be taken if student needs background for Physics.

The above requirements represent the very minimum, and those students without an adequate farm background could benefit by taking such agriculture courses as animal nutrition, elements of animal science, livestock management, livestock production courses, and animal nutrition. An introduction to physiology would also be helpful. Many students who are accepted to a professional veterinary program first complete the four-year Animal Science major at MTSU and earn the B.S. degree

Courses in Agribusiness and Agriscience [ABAS]

See back of catalog for course descriptions.

Graduate Study

A graduate minor is offered in Agriculture. Requirements and a list of the courses offered for graduate credit are published in the Graduate Catalog.