

College of Agriculture

LUTHER WATERS, JR., *Dean*
R. L. GUTHRIE, *Executive Associate Dean*
W.E. HARDY JR., *Interim Associate Dean*
W. J. ALVERSON, JR., *Assistant Dean*

THE COLLEGE OF AGRICULTURE prepares students for careers in agriculture and related professions. Courses provide a broad foundation in the basic sciences, a general knowledge of the applied sciences, and a reasonable number of cultural subjects. Most of the basic science courses are given in the freshman and sophomore years and serve as a basis for a better understanding of the applied subjects, usually taken in the junior and senior years.

Curricula are offered in Agricultural Business and Economics, Agricultural Communications, Agronomy and Soils, Animal and Dairy Sciences, Fisheries and Allied Aquacultures, Horticulture and Poultry Science. The College of Agriculture also furnishes the subject matter training in Agriculture for the curricula of Biosystems Engineering and Agribusiness Education. Students who wish to major in other agricultural fields should consult with the Dean.

Transfer credits for agricultural subjects not considered equivalent to those required in the chosen curriculum may be substituted for elective credit; however, duplication of credit will not be allowed. Equivalence of agricultural subjects will be determined by the Dean's Office; however, students may also obtain transfer credit on the basis of validating examinations. Arrangements for validating examinations must be made with the Dean of Agriculture in the first term of enrollment in the College of Agriculture at Auburn and the examinations must be completed before the middle of the second term. Transfer credit for courses which are upper-division courses at AU will not be accepted from two-year colleges.

Pre-Veterinary Medicine

It is possible to gain admission to the College of Veterinary Medicine upon completion of the minimum requirements listed below. Students may declare an option upon admission to the College of Agriculture and must declare an option by the end of their freshman year. If students are admitted to the College of Veterinary Medicine after the completion of all the requirements in the first three years of the option, they may obtain a Bachelor of Science degree in the option after completion of the freshman year in the College of Veterinary Medicine.

The minimum requirements (74 semester hours) for admission to the College of Veterinary of Medicine, Auburn University are incorporated in the first three years of the options listed under the following curricula: Animal & Dairy Sciences, Fisheries and Allied Aquacultures and Poultry Science.

English Composition (6), Mathematics (3), Core History (6), Philosophy (3), PHYS 1500 & 1501 and, PHYS 1510 & 1511 (8), Literature (6), Social Studies (6), BIOL 1020 & 1030 (8), CHEM 1030 & 1031 and CHEM 1040 & 1041 (8), CHEM 2070, 2071, and CHEM 2080 & 2081 (8), Fine Arts (3), BCHE 3200 (3), Scientific Electives (6).

See also the curriculum in Pre-Veterinary Medicine (PVET), College of Science and Mathematics.

Dual-Degree Program With Engineering

This program gives students the opportunity to receive two baccalaureate degrees - one in agriculture and one in engineering. Although the program was developed primarily for students desiring a combination of a biological sciences program with an engineering program, it does not preclude the consideration of other Agriculture-Engineering combinations.

In general, students will be enrolled in the College of Agriculture for approximately three years and in the College of Engineering for approximately two years. During the first three years, the students, should take those mathematics, physics and chemistry courses necessary to allow them to transfer to the College of Engineering. Additionally, before transferring to the College of Engineering, they should have completed approximately three-fourths of the total hours required by the College of Agriculture for the awarding of the degree.

To become dual-degree candidates under this program, students must have GPAs which indicate the likelihood of satisfactory completion of College of Engineering degree requirements and recommen-

dation from the Dean of the College of Agriculture. The recommendation should be sought one term before the expected transfer to the College of Engineering.

It is also possible for qualified students to transfer to the College of Engineering following the junior year with the intent of seeking a master's degree rather than a bachelor's degree in one of the engineering disciplines. Consult the Engineering Dean's Office concerning this option.

Minors

AGRIBUSINESS MINOR

18 semester hours in Minor (minimum 9 hours at 3000 level or above)

Courses required: **Cr. Hrs.**

ACCT 2910 Fundamentals of Accounting.....3

AGEC 4040 Agricultural Finance.....3

AGEC 6000 Principles of Agribusiness Mngt.....OR

AGEC 6010 Farm Management.....OR

AGEC 6100 Agribusiness Management.....3

Elective Courses: see adviser for approved course listing.

AGRONOMY & SOILS MINOR

17 semester hours in Minor (minimum 9 hours at 3000 level or above)

Courses required: **Cr. Hrs.**

AGRN 1000 Basic Crop Science.....4

AGRN 2040 Introductory Soils.....4

Elective Courses: see adviser for approved course listing.

ANIMAL & DAIRY SCIENCE MINOR

15 -16 semester hours in Minor (minimum nine hours at 3000 level or above)

Courses required: **Cr. Hrs.**

ANSC 1000 Introductory Animal & Dairy Science.....4

Elective Courses: see adviser for approved course listing.

ENTOMOLOGY MINOR

20 semester hours in Minor (minimum 13 hours at 3000 level or above)

Courses required: **Cr. Hrs.**

ENTM 3040 General Entomology.....4

Elective Courses: see adviser for approved course listing.

NATURAL RESOURCES, ECONOMICS AND ENVIRONMENTAL POLICY MINOR

15 semester hours in Minor (minimum 12 hours at 3000 level or above)

Courses required: **Cr. Hrs.**

ECON 2030 Macroeconomics.....3

AGEC 6090 Resource Economics I.....3

AGEC 6120 Env & Natural Res Economics.....3

Elective Courses: see adviser for approved course listing.

PLANT PATHOLOGY MINOR

15 semester hours in Minor (minimum nine hours at 3000-level or above)

Courses required: **Cr. Hrs.**

PLPA 3000 General Plant Pathology.....3

Elective Courses: see adviser for approved course listing.

POULTRY SCIENCE MINOR

15 semester hours in Minor (minimum 12 hours at 3000 level or above)

Courses required: **Cr. Hrs.**

POUL 1000 Introduction to Poultry Science.....3

POUL 3030 Commerical Poultry Production.....4

Elective Courses: see adviser for approved course listing.

RURAL & COMMUNITY DEVELOPMENT MINOR

15 semester hours in Minor (minimum 12 hours at 3000 level or above)

Courses required: **Cr. Hrs.**

RSOC 3620 Community Organization.....3

SOCY 3700 Methods of Social Research.....3

Elective Courses: see adviser for approved course listing.

Agricultural Business and Economics (AGEC)

The curriculum provides broad technical training and a strong liberal arts and business background to prepare students for careers in a wide array of agribusiness and related fields.

Students may choose a general program of study, or select one of three career tracks that provides more specialized training in: (1)

Agribusiness Management and Marketing that emphasizes training in business management, marketing/sales, and finance, (2) *Farm Management* that emphasizes management and decision-making skills at the farm level, or (3) *Natural Resources Management* that trains students in resource issues and effective utilization of those resources. Programs are designed to help students reach their goals and help ensure a rewarding career.

Curriculum in Agricultural Business and Economics

FR	F	S		F	S
ENGL	1100	1120	English Composition I & II	3	3
HIST	1210	1220	Technology & Civilization I & II	3	3
MATH	1680	1690	Bus Math & Calculus I & II	4	3
ECON		2020	Microeconomics	--	3
SOCY	1000		Sociology: Global Perspective	3	--
AGEC		2100	Microcomputer Applications	--	3
			Core Fine Art	3	--
				16	15
SO					
ENGL	2200	2210	Great Books I & II	3	3
BIOL	1020		Principles of Biology	4	--
BIOL		1030	Organismal Biology	--	4
ACCT	2110	2120	Financial & Managerial Acct.	3	3
PHIL			1020 Ethics or 1040 Business Ethics	3	--
ECON	2030		Macroeconomics	3	--
STAT		2510	Statistics for Biology & Health Sci. OR	--	--
STAT		2610	Statistics for Bus & Economics	--	3
COMM		1000	Professional Communication	--	3
				16	16
JR					
AGEC	3010		Agricultural Marketing	3	--
AGEC		4900	Undergraduate Seminar	--	0
ECON	3020		Intermediate Economics	3	--
AGEC		4040	Agricultural Finance	--	3
ENGL	3080		B & P Writing	3	--
			Agriculture Elective	4	4
			Career Track Elective	2	7
				15	14
SR					
AGEC	6030		Agricultural Prices	3	--
AGEC		4300	Agricultural Trade & Policy	--	3
AGEC	6090		Resources Economics I	3	--
AGEC		6100	Agribusiness Management	--	3
AGEC	4070		Agricultural Law	3	--
			Career Track Elective	2	8
AGEC	6010		Farm Management	3	--
				14	14
			TOTAL HOURS — 120		

Career Track and Agricultural Electives: see adviser for approved list.

Agricultural Communications (AGCO)

The Agricultural Communications major provides graduates with training in a wide range of agricultural, biological and physical science courses, plus a strong background in journalism, general communications, and public relations subjects.

Many large agricultural media and medical technological operations, plus many magazine companies, publish highly technical material. Editors and writers of such publications need a knowledge of agricultural and technical subject matter and terminology, as well as communication skills. This combination is not found in other curricula.

Curriculum in Agricultural Communications

FR	F	S		F	S
ENGL	1100	1120	English Composition I & II	3	3
			Core History	3	3
MATH	1130		Pre-Calculus with Trigonometry	3	--
JRNL		1100	Newspaper Fundamental	--	3
BIOL	1020		Principles of Biology	4	--
BIOL		1030	Organismal Biology	--	4
			Core Social Science I	--	3
				13	16
SO					
JRNL	2210		Newswriting	3	--
			Core Fine Arts	--	3
AGEC	2100		Microcomputer Application	3	--
CHEM	1030	1040	Fundamentals of Chemistry I & II	3	3
CHEM	1031	1041	Fundamentals of Chemistry Lab I & II	1	1
ENGL	2200	2210	Great Books I & II	3	3
JRNL		2220	Practicum in Journalism	--	1

JRNL	2310		POUL or ANSC	3-4	--
			Reporting	--	3
				16-17	14
JR					
JRNL	3220		Feature Writing	3	--
JRNL	3470		Newspaper Editing/Design	--	3
JRNL	3410		Photo Journalism	3	--
RTVF		3380	Broadcast News	--	3
			HORT or AGRN	4	--
AGEC		3010	Agricultural Marketing	--	3
COMM	1000		Public Speaking	3	--
COMM	1010		Comm Skills in Leadership Setting	--	3
ECON	2020		Microeconomics	3	--
			Core Philosophy	--	3
				16	15
SUMMER					
JRNL			4920 Internship or 4430 Workshop	3	
SR					
PRCM	3040		Introduction to Public Relations	3	--
RTVF		3350	Writing for TV/Radio/Film	--	3
JRNL	4222		Advanced Feature Writing	2	--
AGEC	4070		Agricultural Law	--	3
AGRN	3040		Basic Soils	4	--
			Agricultural Elective	--	4
			Elective	3	4-5
				12	14-15
			TOTAL HOURS — 120		

Agricultural Elective: see adviser for approved course listing.
 HORT, AGRN, ANSC or POUL: see adviser for approved course listing.

Agronomy and Soils (AGRN)

Courses prepare Agronomy graduates for: (1) turfgrass industry, (2) chemical industry, producers of fertilizers, herbicides and other agricultural chemicals; (3) farm-advisory agencies such as soil testing laboratories and other private consultants; (4) public farm-advisory agencies such as the Agricultural Extension Service or the Natural Resources Conservation Service; (5) research agencies of corporations, U.S. Department of Agriculture, colleges and universities and Agricultural Experiment Stations; (6) farming and (7) environmental agencies.

Curriculum in Agronomy and Soils - Production Track

FR	F	S		F	S
BIOL	1020		Principles of Biology	4	--
BIOL		1030	Organismal Biology	--	4
MATH	1130	1610	Math	3	4
CHEM	1030	1040	Fundamentals of Chemistry I & II	3	3
CHEM	1031	1041	Fundamentals of Chemistry I & II Lab	1	1
AGRN	1000		Basic Crop Science	4	--
ENGL		1100	English Composition I	--	3
			Elective	1	--
				16	15
SO					
ENGL	1120		English Composition II	3	--
			Core Social Science Group 1	--	3
CHEM	2030		Organic Chemistry	3	--
HIST	1210	1220	Technology & Civilization I & II	3	3
ACCT	2150		Fund. of Accounting	3	--
ENGL		2200	Great Books I	--	3
AGEC	2100		Microcomputer Applications	3	--
AGRN	3040		General Soils	--	4
			Core Art	--	3
				15	16
JR					
PLPA	3000		General Plant Pathology	3	--
AGRN		3120	Weed Science	--	4
ENGL	2210		Great Books II	3	--
AGRN		4010	Principles of Forage Production	--	3
ECON	2020		Microeconomics	3	--
AGRN		4000	Advanced Crop Production	--	3
BIOL	3100		Plant Biology	3	--
BIOL	3101		Plant Biology Lab	1	--
BIOL	3000		Genetics	--	4
			Elective	--	2
				13	16
SR					
AGRN	6020		Nutrient Management	3	--
AGRN		6100	Plant Breeding	--	3
AGEC	6000		Agribusiness Management	3	--
AGRN		6000	Soils & Environmental Quality	--	3

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ENTM	4020	Economic Entomology	4	--
		Core Philosophy	--	3
AGRN	6080	Soils Resources & Conservation	4	--
AGRN	6150	Soil Morphology	4	--
		Elective	1	1
			15	14

TOTAL HOURS — 120

Track Requirements: see adviser for approved list.

Curriculum in Agronomy & Soils - Business Track

FR	F	S		F	S
BIOL	1020		Principles of Biology	4	--
BIOL		1030	Organismal Biology	--	4
CHEM	1030	1040	Fund of Chemistry I & II	3	3
CHEM	1031	1041	Fund of Chemistry I & II Lab	1	1
MATH	1130	1610	Math	3	4
AGRN	1000		Basic Crop Science	4	--
ENGL		1100	English Composition I	--	3
			Elective	1	--
				16	15

SO					
ENGL	1120		English Composition II	3	--
ECON		2020	Microeconomics	--	3
			Core Social Science Group 1	3	--
CHEM	2030		Organic Chemistry	3	--
HIST	1210	1220	Technology & Civilization I & II	3	3
ENGL		2200	Great Books I	--	3
ACCT	2150		Fundamentals of Accounting Principles	3	--
AGRN	3040		General Soils	4	--
AGEC	2100		Microcomputer Applications	--	3
				15	16

JR					
PLPA	3000		General Plant Pathology	3	--
AGRN	3120		Weed Science	4	--
ENGL	2210		Great Books II	3	--
AGRN	4010 or 3150		4010 or 3150	4	--
MNGT	3100		Principles of Management	3	--
BIOL	3100		Plant Biology	3	--
BIOL	3101		Plant Biology Lab	1	--
BIOL		3000	Genetics	--	4
			Elective	2	--
				13	14

SR					
AGRN	6020		Nutrient Management	3	--
AGEC		4070	4070 Ag Law or 4040 Ag. Finance	3	3
AGEC	6000		Principles of Agribusiness Mgt.	3	--
AGRN	4000		Advanced Crop Production	3	--
AGRN	6000		Soils & Environmental Quality	3	--
ENTM	4020		Economic Entomology	4	--
			Core Philosophy	--	3
			Core Fine Art	--	3
AGRN	6150		Soil Morphology	4	--
			Elective	2	--
				15	16

TOTAL HOURS — 120

Curriculum in Agronomy & Soils - Science Track

FR	F	S		F	S
BIOL	1020		Principles of Biology	4	--
BIOL		1030	Organismal Biology	--	4
CHEM	1030	1040	Fund of Chemistry I & II	3	3
CHEM	1031	1041	Fund of Chemistry I & II Lab	1	1
MATH	1130	1610	Math	3	4
AGRN	1000		Basic Crop Science	4	--
ENGL		1100	English Composition I	--	3
			Elective	1	--
				16	15

SO					
ENGL	1120		English Composition II	3	--
			Core Social Science Group 1	--	3
CHEM	2070		Organic Chemistry	3	--
CHEM	2071		Organic Chemistry Lab	1	--
HIST	1210	1220	Technology & Civilization I & II	3	3
ENGL		2200	Great Books I	--	3
PHYS	1500		General Physics I	4	--
CHEM		3050	Analytical Chemistry	--	3
CHEM		3051	Analytical Chemistry Lab	--	1
AGEC		2100	Microcomputer Applications	--	3
			Elective	1	--
				15	16

JR					
PLPA	3000		General Plant Pathology	3	--
AGRN	3120		Weed Science	4	--
ENGL	2210		Great Books II	3	--
AGRN	4010 or 4000		4010 or 4000	3	--
ECON	2020		Microeconomics	3	--
BIOL	3100		Plant Biology	3	--
BIOL	3101		Plant Biology Lab	1	--
BIOL		3000	Genetics	--	4
AGRN	3040		General Soils	4	--
				13	15

SR					
AGRN	6020		Nutrient Management	3	--
			AGRN 6150 or BIOL 6120	4	--
			Core Fine Art	3	--
ENTM	4020		Economic Entomology	4	--
BIOL		3200	General Microbiology	--	4
			Agronomy & Soils Elective	4	--
			Core Philosophy	--	3
			Elective	1	--
				15	15

TOTAL HOURS — 120

Agronomy & Soils electives to be taken from courses approved by adviser.

Curriculum in Agronomy & Soils - Turfgrass Track

FR	F	S		F	S
BIOL	1020		Principles of Biology	4	--
BIOL		1030	Organismal Biology	--	4
CHEM	1030	1040	Fund of Chemistry I & II	3	3
CHEM	1031	1041	Fund of Chemistry I & II Lab	1	1
MATH	1130	1610	Math	3	4
AGRN	1000		Basic Crop Science	4	--
ENGL		1100	English Composition I	--	3
				15	15

SO					
ENGL	1120		English Composition II	3	--
BIOL		3100	Plant Biology	--	3
CHEM	2030		Organic Chemistry	3	--
BIOL		3101	Plant Biology Lab	--	1
HIST	1210	1220	Technology & Civilization I & II	3	3
AGRN	3150		Turfgrass Management	4	--
ENGL		2200	Great Books II	--	3
			Core Social Science Group 1	3	--
AGRN	3040		General Soils	4	--
AGEC	2100		Microcomputer Applications	--	3
				16	17

JR					
PLPA	3000		General Plant Pathology	3	--
HORT		2210	Landscape Gardening	--	4
ENGL	2210		Great Books II	3	--
ACCT		2150	Fund of Accounting Principles	--	3
ECON	2020		Microeconomics	3	--
ENTM	4020		Economic Entomology	4	--
AGRN	3120		Weed Science	4	--
			Core Fine Arts	--	3
			Elective	1	--
AGEN	3560		Landscape & Golf Irrigation	3	--
				14	17

SR					
AGRN	6020		Nutrient Management	3	--
AGRN	6150		Soil Morphology	4	--
AGEC	6000		Principles of Agribusiness Mgmt.	3	--
AGRN	6000		Soils & Environmental Quality	3	--
AGRN	6160		Advanced Turfgrass	3	--
PLPA		6060	Principles of Plant Disease Control	--	3
			Core Philosophy	--	3
AGRN		3920	Agronomy Internship	--	2
			Elective	1	--
				13	13

TOTAL HOURS — 120

Animal and Dairy Sciences (ANSC)

The department offers two curriculum options. The Pre-Vet/Pre-Professional option (ANPV) provides students with a foundation in the biological and physical sciences for careers in emerging areas of animal biotechnology while satisfying requirements for application to Auburn's College of Veterinary Medicine, other professional schools or graduate school. The Production option (ANSC) offers greater breadth in animal production management and agribusiness while retaining

more electives hours for additional curriculum flexibility. Students may use electives to develop expertise in fields such as meat science, animal breeding, nutrition, reproduction, growth, behavior, equine science and companion animals.

Curriculum in Animal and Dairy Sciences

Production Option

FR	F	S		F	S
ENGL	1100	1120	English Composition	3	3
CHEM	1030	1040	Fundamentals of Chemistry I & II	3	3
CHEM	1031	1041	Fundamentals of Chemistry I & II Lab ...	1	1
MATH	1130		Math	3	
BIOL	1020		Principles of Biology	4	--
BIOL		1030	Organismal Biology	--	4
ANSC	1100		Orientation to ANSC	1	--
ANSC		1000	Introduction to ANSC	--	4
				15	15
SO					
ENGL	2200	2210	Great Books I & II	3	3
			Core Social Science Group 1	3	--
CHEM	2030		Organic Chemistry	3	--
			Core History	3	3
ECON		2020	Microeconomics	--	3
BIOL	2500	2510	Anat Physiol I & II	4	4
BIOL		3000	Genetics	--	4
				16	17
JR					
BCHE	3200		Principles of Biochemistry	3	--
ANSC		3400	Animal Nutrition	--	4
ANSC	3600		Reproductive Physiol	4	--
ANSC		3500	Animal Breeding	--	3
			Core Philosophy	3	--
ANSC		3700	Muscle Foods	--	4
AGEC		6000	Agribus Management	--	3
ANSC		3800	Careers in Animal Ag	--	1
PHYS	1000		Foundations of Physics	4	--
				14	15
SR					
BIOL	3200		Microbiology	4	--
			Directed Elective	--	4
COMM	1000		Communication	3	--
			Free Electives	4	10
			Core Art	3	--
				14	14
TOTAL HOURS — 120					

Curriculum in Animal & Dairy Sciences

Pre-Vet - Pre-Professional Option

FR	F	S		F	S
ENGL	1100	1120	English Composition	3	3
CHEM	1030	1040	Fundamentals of Chemistry I & II	3	3
CHEM	1031	1041	Fundamentals of Chemistry I & II Lab ...	1	1
MATH	1130		Math	3	
BIOL	1020		Principles of Biology	4	--
BIOL		1030	Organismal Biology	--	4
ANSC	1100		Orientation to ANSC	1	--
ANSC		1000	Introduction to ANSC	--	4
				15	15
SO					
ENGL	2200	2210	Great Books I & II	3	3
			Core Social Science Group 1	3	--
CHEM	2070	2080	Organic Chemistry I & II	3	3
CHEM	2071	2081	Organic Chemistry Lab I & II	1	1
			Core History	3	3
			Core Art	--	3
BIOL	2500	2510	Anat Physiol I & II	4	4
				17	17
JR					
BCHE	3200		Principles of Biochemistry	3	--
ANSC		3400	Animal Nutrition	--	4
ANSC	3600		Reproductive Physiol	4	--
ANSC		3500	Animal Breeding	--	3
			Core Philosophy	3	--
ANSC		3700	Muscle Foods	--	4
PHYS	1500	1510	General Physics I & II	3	3
PHYS	1501	1511	General Physics Lab I & II	1	1
ANSC		3800	Careers in Animal Ag	--	1
				14	16
SR					
BIOL	3200		Microbiology	4	--
BIOL	3000		Genetics	4	--

			Directed Elective	--	4
COMM	1000		Communication	3	--
ECON		2020	Microeconomics	--	3
			Free Electives	3	5
				14	12

TOTAL HOURS — 120

Biosystems Engineering (BSEN)

The Biosystems Engineering Department offers the only accredited degree in Biosystems Engineering in Alabama. It is committed to preparing students for productive professional careers in the biosystems industries and related natural resource and environmental systems sectors. Specific educational objectives of the program are to produce graduates with: the skills necessary to solve engineering problems associated with the production, processing, storage, and manufacture of food, fiber and agricultural products; the ability to combine engineering skills with training in biological sciences to solve problems and to work in multidisciplinary teams; the ability to analyze problems critically and conduct scientific experimentation and engineering analysis; the ability to continue developing professionally throughout their career.

The curriculum is coordinated by the colleges of Engineering and Agriculture. Beginning students should apply for admission to the College of Engineering and complete the Pre-Biosystems Engineering program.

See the College of Engineering Section for curriculum model, admission and degree requirements.

Fisheries and Allied Aquacultures (FISH)

Fisheries Science combines a general foundation in chemistry, mathematics and biological sciences with applied courses in the principles needed to manage fresh and saltwater aquatic resources. The degree is intended to equip students with a broad understanding of fundamental scientific principles needed to develop solutions for the increasing pressures on our aquatic resources and the need to provide safe, reliable food through aquaculture production. Through a sequence of courses, students specialize in emphasis areas of aquatic ecology, fisheries management or aquaculture. Careers for graduates include work in environmental management, fisheries resource management, extension, and commercial aquaculture production, processing, and marketing.

Curriculum in Fisheries & Allied Aquacultures

FR	F	S		F	S
ENGL	1110	1120	English Composition I & II	3	3
HIST	1010	1020	World History I & II	3	3
BIOL	1020		Principles of Biology	4	--
BIOL		1030	Organismal Biology	--	4
MATH	1610		Calculus I	4	--
PHYS		1000	Foundations of Physics	--	4
				14	14
SO					
ENGL	2200	2210	Great Books I & II	3	3
			Core Philosophy	3	--
BIOL		3060	Principles of Ecology	--	4
CHEM	1030	1040	Fundamentals of Chemistry I & II	3	3
CHEM	1031	1041	Fund of Chemistry Lab I & II	1	1
			Social Science Group	3	--
ECON		2020	Principles of Microeconomics	--	3
			Elective	2	--
				15	14
SUMMER					
FISH		2100	Introduction to Fish Science	6	--
JR					
FISH	6220		Water Science	3	--
FISH		6320	Limnology	--	4
			Core Fine Arts	3	--
STAT		2510	Statistics Ag & Life Science	--	3
			Emphasis	4	4
AGEC	2100		Micro Comp Application	3	--
CHEM		2030	Organic Chemistry	--	3
				13	14
SR					
FISH	6380		General Ichthyology	4	--
			Emphasis	4	9
COMM		1010	Communication Skills	--	3

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FISH	3930	Seminar1	--		
		Elective.....3	3		
FISH	6510	Fish Biology & Management3	--		
			15	15	
TOTAL HOURS — 120					

Emphasis: see adviser for approved course listing.

Horticulture (HORT)

Courses prepare Horticulture graduates for the following careers; nursery manager, landscape designer, landscape installer, landscape maintenance, interior landscaping, plant propagator, city or state horticulturist, extension horticulturist, horticulture writer, horticulture teacher, florist shop manager, greenhouse manager, vegetable producer, orchard manager, chemical company representative, seed company representative or retail garden center manager.

Three undergraduate tracks are available to students in Horticulture: Landscape Horticulture, Nursery and Greenhouse Science and Fruit and Vegetable Crop Production. Horticulture offers masters and doctoral degrees which leads to professional positions in teaching, research and extension.

Curriculum in Nursery and Greenhouse Science

FR	F	S		F	S
ENGL	1100	1120	English Composition I & II.....3	3	3
HORT	1010		Introduction to Horticulture1	--	--
BIOL	1020		Principles of Biology.....4	--	--
BIOL		1030	Organismal Biology.....4	--	--
MATH	1130		Math.....3	--	--
CHEM		1030	Fundamentals of Chemistry.....3	--	--
CHEM		1031	Fundamentals of Chemistry Lab.....1	--	--
			Core History.....3	3	3
				14	14
SO					
ENGL	2200	2210	Great Books I & II.....3	3	3
ECON	2020		Microeconomics.....3	--	--
COMM		1000	Professional Communication.....3	--	--
AGEC	2100		Microcomp App in Agriculture.....3	--	--
HORT	2240		Plant Propagation3	--	--
AGRN	2040		Introductory Soils.....4	--	--
HORT	3210		Small Trees, Shrubs & Vines4	--	--
			Core Philosophy.....3	3	3
			Social Science Group I.....3	--	--
				16	16
JR					
PLPA	3000		General Plant Pathology.....3	--	--
ENTM		4020	Economic Entomology.....4	--	--
HORT	4100		Herbaceous Ornamentals4	--	--
HORT	3220		Arboreal Horticulture4	--	--
			Horticulture Elective Group 14	--	--
AGRN	3150		Turfgrass Management.....4	--	--
HORT	3000		Growth & Dev. of Hort. Plants or3	--	--
BIOL	3100		Plant Biology or3	--	--
BIOL	3101		Plant Biology Lab1	--	--
			Core Fine Art.....3	--	--
HORT	3950		Careers in Horticulture1	--	--
				15	15-16
SR					
HORT	6230		Nursery Management3	--	--
HORT	6220		Greenhouse Management Science4	--	--
			Horticulture Elective Group 13-4	--	--
			Horticulture Elective Group 2.....3-4	3-4	3-4
			Electives.....4-6	6-8	6-8
				15	14-15
TOTAL HOURS — 120					

Horticulture Elective Group 1 and 2: see adviser for approved course listing.

Curriculum in Landscape Horticulture

FR	F	S		F	S
ENGL	1100	1120	English Composition I & II.....3	3	3
HORT	1010		Introduction to Horticulture1	--	--
BIOL	1020		Principles of Biology.....4	--	--
BIOL		1030	Organismal Biology.....4	--	--
MATH	1130		Math.....3	--	--
CHEM		1030	Fundamentals of Chemistry.....3	--	--
CHEM		1031	Fundamentals of Chemistry Lab.....1	--	--
			Core History.....3	3	3
				14	14

SO				F	S
ENGL	2200	2210	Great Books I & II.....3	3	3
ECON	2020		Microeconomics.....3	--	--
COMM		1000	Professional Communication.....3	--	--
AGEC	2100		Microcomp App in Agriculture.....3	--	--
HORT	2240		Plant Propagation3	--	--
AGRN	2040		Introductory Soils.....4	--	--
HORT	3210		Small Trees, Shrubs & Vines4	--	--
			Core Philosophy.....3	3	3
			Social Science Group I.....3	--	--
				16	16
JR					
PLPA	3000		General Plant Pathology.....3	--	--
ENTM		4020	Economic Entomology.....4	--	--
HORT	4100		Herbaceous Ornamentals4	--	--
HORT	3220		Arboreal Horticulture4	--	--
HORT	4270		Intermediate Landscape Design3	--	--
AGRN	3150		Turfgrass Management.....4	--	--
HORT	3000		Growth & Develop of Hort. Plants3	--	--
			Core Fine Art.....3	3	3
HORT	3950		Careers in Horticulture1	--	--
				15	14
SR					
HORT	6210		Landscape Bid, Install & Maint4	--	--
			Horticulture Elective Group 17-8	--	--
			Horticulture Elective Group 2.....3-4	3-4	3-4
			Electives.....3-6	7-8	7-8
				15-16	14-15

TOTAL HOURS — 120

Horticulture Elective Group 1 and 2: see adviser for approved course listing.

Curriculum in Fruit & Vegetable Production

FR	F	S		F	S
ENGL	1100	1120	English Composition I & II.....3	3	3
HORT	1010		Introduction to Horticulture1	--	--
BIOL	1020		Principles of Biology.....4	--	--
BIOL		1030	Organismal Biology.....4	--	--
MATH	1130		Math.....3	--	--
			Core Art.....3	3	3
			Core History.....3	3	3
COMM		1000	Public Speaking.....3	--	--
				14	16
SO					
ENGL	2200	2210	Great Books I & II.....3	3	3
HORT	2010		Fruit & Nut Production4	--	--
			Core Philosophy.....3	3	3
HORT	2240		Plant Propagation3	--	--
CHEM	1030	1040	Fundamentals of Chemistry I & II.....3	3	3
CHEM	1031	1041	Fundamentals of Chemistry I & II Lab.....1	1	1
HORT	2030		Vegetable Production3	--	--
			ACCT 2150 or ECON 2020.....3	3	3
				15	16
JR					
			Social Science Group 1 & 2.....3	3	3
PLPA	3000		Plant Pathology.....3	--	--
ENTM		4020	Economic Entomology.....4	--	--
HORT	3000		Growth & Dev of Hort Plants3	--	--
AGEC	2100		Microcomp. App. in Agriculture.....3	--	--
HORT	4120		Small Fruit & Pecan Culture3	--	--
			Horticulture Group 1 or 2.....3-4	3-4	3-4
				12-13	16-17
SUMMER					
HORT	4110		Tree Fruit Culture3	--	--
SR					
HORT	4130		Sustain Veg Crop Production3	--	--
HORT	4140		Postharvest Biology & Tech3	--	--
			Horticulture Elective Group 1or 2.....6-8	6-8	6-8
AGRN	3040		General Soils.....4	--	--
			Electives.....3-6	4-6	4-6
				13/16	12

TOTAL HOURS — 120

Horticulture Elective Group 1 and 2: see adviser for approved course listing.

Poultry Science (POUL)

This curriculum is designed to develop technical, analytical, communication, business and management skills needed for advancement to leadership positions in the live poultry production, poultry food product production, and allied agricultural industries. Graduates will be able to apply their knowledge of science, economics, business and ethics to identify, analyze and responsibly address challenges associated with poultry production and the production of nutritious, wholesome and safe poultry products for the modern consumer. Professional and general electives allow students to pursue expertise in their individual area of interest. Although not specifically required, enrollment in summer internship is encouraged and accepted as professional elective credit.

Curriculum in Poultry Science

FR	F	S		F	S
POUL	1000		Introduction to Poultry Science	3	--
COMM	1000		Public Speaking	--	3
CHEM	1030	1040	Introduction to Chemistry I & II	3	3
CHEM	1031	1041	Introduction to Chemistry I & II Lab	1	1
ENGL	1110	1120	English Composition I & II	3	3
MATH	1130		Pre-Calculus w/Trigonometry	3	--
			Social Science Group I	--	3
AGEC	2100		Microcomp in Agriculture	--	2
				13	15
SO					
CHEM	2030		Survey Organic Chemistry	3	--
PHYS	1000		Fundamentals of Physics	--	4
BIOL	1020		Principles of Biology	4	--
BIOL	1030	1030	Organismal Biology	--	4
ENGL	2200	2210	Great Books I & II	3	3
			Core History	3	3
			Core Philosophy	--	3
ECON	2020		Microeconomics	3	3
				16	17
JR					
POUL	3030		Comm. Poultry Production	4	--
POUL	3150		Poultry Physiology	--	4
BCHE	3200		Principles of Biochemistry	3	--
POUL	3060		Brd, Frt, & Htch	--	4
STAT	2510		Introduction to Statistics	3	--
			Core Fine Arts	--	3
			Professional Electives	4	4
				14	15
SR					
POUL	4050		Poultry Feeding	4	--
POUL	4160		Principle Food Safety	--	3
POUL	4110		Proc & Market	3	--
POUL	4080		Poultry Health	--	3
AGEC	6000		Agribusiness Management	--	3
			COMM 2410 or ENGL 3040 or ENGL 3080 ..	--	3
			General Electives	--	3
			Professional Electives	4	--
BIOL	3200		Microbiology	4	--
				15	15
TOTAL HOURS — 120					

Professional electives see adviser for approved list.

Poultry Science Pre-Veterinary Medicine (POPU)

This curriculum develops technical, analytical and communication skills, as well as the broad scientific knowledge base needed for success in technical and research positions in the poultry and allied industries, or post-graduate programs leading to advanced degrees in the sciences; such as, the Master of Science, Doctor of Philosophy or Doctor of Veterinary Medicine. Courses listed for the first six semesters (91 hours) satisfy requirements for admission to the College of Veterinary Medicine. Completion of the remaining requirements or one year in the College of Veterinary Medicine entitles the student to a B.S. degree in Poultry Science.

Curriculum in Poultry Science/Pre-Veterinary Medicine

FR	F	S		F	S
BIOL	1020		Principles of Biology	4	--
BIOL		1030	Organismal Biology	--	4
POUL	1000		Introduction to Poultry Science	--	3
CHEM	1030	1040	Introduction to Chemistry I & II	3	3
CHEM	1031	1041	Introduction to Chemistry I & II Lab	1	1
MATH	1130		Pre-Calculus with Trigonometry	3	--
ENGL	1110	1120	English Composition I & II	3	3
				14	14
SO					
CHEM	2070	2080	Organic Chemistry I & II	3	3
CHEM	2071	2081	Organic Chemistry I & II Lab	1	1
ENGL	2200	2210	Great Books I & II	3	3
			Core History	3	3
			Core Fine Arts	3	--
			Core Philosophy	--	3
			Social Science Group I	3	--
ECON		2020	Microeconomics	--	3
				16	16
JR					
POUL	3030		Comm Poul Production	4	--
POUL	3150		Poultry Physiol	--	4
BCHE	3200		Principles of Biochemistry	3	--
POUL	3060		Brd, Frt, & Htch	--	4
BIOL	3000		Genetics	4	--
BIOL	3200		Microbiology	--	4
PHYS	1500	1510	General Physics I & II	3	3
PHYS	1501	1511	General Physics I & II Labs	1	1
				15	16
SR					
POUL	4050		Poultry Feeding	4	--
POUL	4160		Principle Food Safety	--	3
POUL	4110		Process & Market	3	--
POUL	4080		Poultry Health	--	3
AGEC	2100		Microcomp. App. in Agriculture	--	2
			General Elective	4	4
STAT	2510		Statistics	--	3
COMM	1000		Public Speaking	3	--
				14	15
TOTAL HOURS — 120					