

AGRICULTURE

*Effective Term – Summer 1997 [1997*02]*

AGR 110	Agricultural Economics	3	0	3
Prerequisites:	None			
Corequisites:	None			

This course provides an introduction to basic economic principles in agriculture. Topics include supply and demand, the role of agriculture in the economy, economic systems, and micro- and macroeconomics. Upon completion, students should be able to explain economic systems, interpret supply and demand curves, and complete cost and revenue production schedules.

*Effective Term – Summer 1997 [1997*02]*

AGR 111	Basic Farm Maintenance	1	3	2
Prerequisites:	None			
Corequisites:	None			

This course covers fundamentals of maintenance and repair of farm facilities and equipment. Topics include safe use of hand tools and farm machinery, carpentry, concrete, painting, wiring, welding, plumbing, and calculating costs and materials needed. Upon completion, students should be able to answer theoretical questions on topics covered and assist with maintenance and repair of farm facilities and equipment.

*Effective Term – Summer 1997 [1997*02]*

AGR 112	Agri Records & Accounting	2	2	3
Prerequisites:	None			
Corequisites:	None			

This course covers principles involved in establishing, maintaining, and analyzing livestock and farm records. Topics include computerized livestock and farm records, net worth statements, and income and cash flow statements. Upon completion, students should be able to develop a production record keeping system, calculate performance efficiencies, and establish production goals.

*Effective Term – Summer 1997 [1997*02]*

AGR 120	Pesticide Use & Handling	1	2	2
Prerequisites:	None			
Corequisites:	None			

This course provides a basic understanding of pesticides. Topics include safety, regulations, and the use of pesticides. Upon completion, students should be able to demonstrate the safe use and handling of pesticides.

*Effective Term – Fall 2001 [2001*03] – CRC 4/20/01*

AGR 121	Biological Pest Mgmt	3	0	3
Prerequisites:	None			
Corequisites:	None			

This course will emphasize the building and maintaining of healthy soil, plant and insect biological cycles as the key to pest and disease management. Course content includes study of major pests and diseases, including structure, life cycle, and favored hosts; and biological and least toxic methods of chemical control. Upon completion, students should be able to identify and recommend methods of prevention and control of selected insects and diseases.

*Effective Term – Summer 1997 [1997*02]*

AGR 130 Alternative Ag Production

3 0 3

Prerequisites: None

Corequisites: None

This course covers the latest nontraditional enterprises in agriculture. Topics include animal production, aquaculture, and plant production. Upon completion, students should be able to identify selected enterprises and describe basic production practices.

*Effective Term – Spring 2004 [2004*01] – CRC 9/10/03*

AGR 131 Market Garden Lab

0 6 2

Prerequisites: None

Corequisites: None

This course provides familiarization with basic gardening techniques by performing practical hands-on exercises required for sustainable production. Emphasis is placed on irrigation, planting, fertilizing, pest control, equipment operation, harvest and post-harvest, and season extension. Upon completion, students should be able to satisfactorily perform various practices essential to maintaining the sustainable market garden.

*Effective Term – Fall 2001 [2001*03] – CRC 4/20/01*

AGR 139 Intro to Sustainable Ag

3 0 3

Prerequisites: None

Corequisites: None

This course will provide students with a clear perspective on the principles, history and practices of sustainable agriculture in our local and global communities. Students will be introduced to the economic, environmental and social impacts of agriculture. Upon completion, students should be able to identify the principles of sustainable agriculture as they relate to basic production practices.

*Effective Term – Summer 1997 [1997*02]*

AGR 140 Agricultural Chemicals

2 2 3

Prerequisites: None

Corequisites: None

This course covers all aspects of agricultural chemicals. Topics include safety, environmental effects, federal and state laws, pesticide classification, sprayer calibration, and licensing. Upon completion, students should be able to calibrate a sprayer, give proper pesticide recommendations, and demonstrate safe handling of pesticides.

*Effective Term – Summer 1997 [1997*02]*

AGR 150 Ag-O-Metrics

3 0 3

Prerequisites: None

Corequisites: None

This course introduces basic calculations for agricultural applications. Topics include the metric system, land measurement, feed efficiency, rate of gain, chemical calibration, and payroll. Upon completion, students should be able to perform calculations that pertain to agricultural production.

*Effective Term – Summer 1997 [1997*02]*

AGR 160	Plant Science	2	2	3
Prerequisites:	None			
Corequisites:	None			

This course introduces the basic principles of botany that pertain to agricultural production. Emphasis is placed on the anatomy and physiology of flowering plants. Upon completion, students should be able to identify and explain plant systems.

*Effective Term – Summer 1997 [1997*02]*

AGR 170	Soil Science	2	2	3
Prerequisites:	None			
Corequisites:	None			

This course covers the basic principles of soil fertilizing. Topics include liming, fertilization, management, and plant nutrients. Upon completion, students should be able to give nutrient and liming recommendations for soils.

*Effective Term – Summer 1997 [1997*02]*

AGR 180	Crop Insects & Diseases	2	3	3
Prerequisites:	None			
Corequisites:	None			

This course includes a study of the major insects and diseases in the southeast. Topics include the structure, life cycle, identification, and control of various insects and diseases. Upon completion, students should be able to identify and recommend methods of control for selected insects and diseases.

*Effective Term – Summer 1997 [1997*02]*

AGR 210	Agricultural Accounting	1	4	3
Prerequisites:	None			
Corequisites:	None			

This course covers the basic principles and practices of accounting and bookkeeping as they relate to the agricultural industry. Topics include general accounting terminology, data entry practices, and analysis of records for tax purposes. Upon completion, students should be able to complete a basic record book and analyze records for tax purposes.

*Effective Term – Summer 1997 [1997*02]*

AGR 212	Farm Business Management	3	0	3
Prerequisites:	None			
Corequisites:	None			

This course introduces budgeting, farm analysis, production costs, business organizations, and general management principles. Topics include enterprise budgets, partial budgets, whole farm budgets, income analysis, and business organizations. Upon completion, students should be able to prepare and analyze a farm budget

*Effective Term – Summer 1997 [1997*02]*

AGR 213	Ag Law & Finance	3	0	3
Prerequisites:	None			
Corequisites:	None			

This course covers the basic laws and financial aspects affecting agriculture. Topics include environmental laws, labor laws, contractual business operations, assets, liabilities, net worth, and funding sources. Upon completion, students should be able to complete loan application procedures and explain basic laws affecting the agricultural industry.

*Effective Term – Summer 1997 [1997*02]*

AGR 214	Agricultural Marketing	3	0	3
Prerequisites:	None			
Corequisites:	None			

This course covers basic marketing principles for agricultural products. Topics include buying, selling, processing, standardizing, grading, storing, and marketing of agricultural commodities. Upon completion, students should be able to construct a marketing plan for an agricultural product.

*Effective Term – Summer 1997 [1997*02]*

AGR 220	Ag Mechanization	2	2	3
Prerequisites:	None			
Corequisites:	None			

This course is a study of farm machinery and agricultural equipment. Topics include selection and operation of tractors, materials handling equipment, tillage and harvesting equipment, and irrigation systems. Upon completion, students should be able to identify equipment parts and explain the basic principles of machinery operation and management.

*Effective Term – Summer 1997 [1997*02]*

AGR 221	Farm Structures	2	2	3
Prerequisites:	None			
Corequisites:	None			

This course covers basic agricultural buildings and structures. Topics include building materials, cost estimating, basic blueprint reading, and job planning. Upon completion, students should be able to complete a cost estimate for constructing an agricultural structure.

*Effective Term – Summer 1997 [1997*02]*

AGR 226	Maint & Serv of Prod Faci	2	2	3
Prerequisites:	None			
Corequisites;	None			

This course provides a detailed look at maintaining and servicing of production facilities. Emphasis is placed on maintaining electrical equipment, plumbing systems, mechanical equipment, and basic welding and cutting practices. Upon completion, students should be able to troubleshoot and repair ventilation equipment, pumps and plumbing, feed lines, curtain controls, and basic electrical controls.

*Effective Term – Summer 1997 [1997*02]*

AGR 261	Agronomy	2	2	3
Prerequisites:	None			
Corequisites:	None			

This course provides a basic introduction to field and forage crops. Topics include forage crops, field crops, seed selection, fertility management, field preparation, harvesting, and storage. Upon completion, students should be able to demonstrate a knowledge of forage and field crop production practices.

*Effective Term – Summer 1997 [1997*02]*

AGR 262	Weed ID & Control	2	3	3
Prerequisites:	None			
Corequisites:	None			

This course introduces the annual and perennial weeds of economic importance in the Southeast. Topics include the life cycles, flowering habits, identification, and control of various weeds in the Southeast. Upon completion, students should be able to identify selected weeds and recommend methods of control.

*Effective Term – Summer 1997 [1997*02]*

AGR 263	Vegetable Production	2	2	3
Prerequisites:	None			
Corequisites:	None			

This course includes a study of vegetable crop production practices. Topics include variety selection, production methods, fertility management, insect and disease control, and harvesting. Upon completion, students should be able to demonstrate a knowledge of vegetable crop production.

*Effective Term – Fall 2001 [2001*03] – CRC 4/20/01*

AGR 265	Organic Crop Prod: Spring	2	2	3
Prerequisites:	None			
Corequisites:	None			

This course includes a study of spring organic crop production practices, including vegetables, cut flowers, and culinary and medicinal herbs. Topics include variety selection, production methods, and record keeping procedures for certification. Upon completion, students should be able to demonstrate a knowledge of organic crop production appropriate for the spring season.

*Effective Term – Fall 2001 [2001*03] – CRC 4/20/01*

AGR 266	Organic Crop Prod: Fall	2	2	3
Prerequisites:	None			
Corequisites:	None			

The course includes a study of spring organic crop production practices, including vegetables, cut flowers, and culinary and medicinal herbs. Topics include variety selection, production methods, and record keeping procedures for certification. Upon completion, students should be able to demonstrate a knowledge of organic crop production appropriate for the fall season.

*Effective Term – Fall 2001 [2001*03] – CRC 4/20/01*

AGR 267	Permaculture	2	2	3
Prerequisites:	None			
Corequisites:	None			

This class introduces the design of sustainable human habitats as part of a sustainable system, with emphasis placed on living systems of the temperate region. Topics include fundamentals of permaculture system design for farms, including gardens, fields, water, animals, buildings, economics, and society. Upon completion, students should be able to design a functional holistic farm system.

*Effective Term – Summer 1997 [1997*02]*

AGR 271	Soil & Water Engineering	2	2	3
Prerequisites:	None			
Corequisites:	None			

This course is designed to introduce basic soil and water conservation practices. Topics include waterways, strip cropping, terracing, ditching, conservation farming, and water quality. Upon completion, students should be able to operate a differential level, interpret a farm plan, and explain water quality principles.

All courses associated with Viticulture/Enology are located in VEN- Viticulture/Enology.

See the SEL and SEM prefixes for generic Selected Topics and Seminar course descriptions.