

The School of Agriculture and Natural Resources

B.A.S. in DIVERSIFIED AGRICULTURE

Diversified Agriculture can be focused on a number of careers within agribusiness. Agribusiness is a \$56.7 billion industry in Georgia and represents 16% of the state's employment base. Career targets include ag supply and manufacturing companies, cotton gins, financial institutions servicing agriculture, including local commercial banks; ag-related marketing businesses, seedstock sales companies and livestock cooperatives; food processors, and agriculture production firms such as farms, ranches and livestock feeding companies. Students will learn the principles of managing land, people, money and other resources to produce a profit while servicing the consuming public and conserving our natural renewable resources.

Students seeking to enter the Diversified Agriculture program must have a 2.3 GPA and a minimum of 42 hours of collegiate credit. Transfer students must meet transfer requirements for the College, which may differ from requirements for admission to the Bachelor program. Acceptance to ABAC does not guarantee acceptance into the program.

Core Curriculum: Areas A-E (See ABAC Core Curriculum, using Area D Non-Science option)*

Area F: Major Courses – 78 hours

Required Career Block 39

Credit from the career block portion of an appropriate AAS** will be applied toward the completion of the Major requirement.

Choose at least thirty-nine hours from the following:

| | | |
|-----------|--|---|
| AECO 3430 | Agricultural Financial Management | 3 |
| AECO 3800 | Food and Agriculture Marketing | 3 |
| AECO 4100 | Agribusiness Management | 3 |
| AENG 3101 | Metal Fabrication | 3 |
| AENG 3201 | Biofuels Technology | 3 |
| AGRI 3200 | Introduction to Biofuels | 3 |
| AGRI 4200 | Biofuels Production and Economics | 3 |
| AGRI 4500 | Farm Operations | 3 |
| AGRI 4700 | International Experiential Learning | 3 |
| AGRP 3240 | Weed Management | 3 |
| AGRP 3319 | Agricultural Chemical Application Techniques | 3 |
| AGRP 3320 | Plant Disease Management | 3 |
| AGRP 4422 | Insect Pest Management | 3 |
| AGRY 3510 | Soil Management | 3 |
| ASLH 3110 | Food Animal Evaluation and Selection | 3 |
| ASLH 3120 | Herd Health | 3 |
| ASLH 4205 | Beef Production | 3 |
| ASLH 3318 | Physiology of Reproduction | 3 |
| ASLH 4405 | Applied Animal Nutrition | 3 |
| FRSC 3111 | Agriculture and Resource Management | 3 |
| MGMT 3670 | Human Resource Management | 3 |
| MKTG 3800 | Principles of Marketing | 3 |

TOTAL 120

PHED 1100 and two PE electives

Academic Programs

- 120 hours required for BAS degree
- Regents' Exam is required.

* Students should closely follow advisors' recommendations for appropriate selections in Area D science.

**Appropriate AAS degrees are Agricultural Business Technology, Agricultural Engineering Technology, Agriculture Production Technology.

B.A.S. in TURFGRASS AND GOLF COURSE MANAGEMENT

Turfgrass and Golf Course Management offers education in golf turf, sports turf, professional lawn care, turf production and grounds management. Employment opportunities in the green industry are readily available for graduates. A grade of "C" or better is required for graduation for all classes with a HORT prefix. Students are encouraged to network with the related national and state professional associations as a student member. Specific scholarships may be available from these industry and professional organizations.

Students seeking to enter the Turfgrass and Golf Course Management program must have a 2.3 GPA and a minimum of 42 hours of collegiate credit. Transfer students must meet transfer requirements for the College, which may differ from requirements for admission to the Bachelor program. Acceptance to ABAC does not guarantee acceptance into the program.

Core Curriculum: Areas A-E (See ABAC Core Curriculum, using Area D Non-Science option)*

Area F: Major Courses – 78 hours

Required Career Block 39

Credit from the career block portion of an appropriate AAS** will be applied toward the completion of the Major requirement.

Choose at least thirty-nine hours from the following:

| | | |
|-----------|--|---|
| AGRI 3200 | Introduction to Biofuels | 3 |
| HORT 3230 | Insect and Nematode Management | 3 |
| HORT 3240 | Weed Management | 3 |
| HORT 3250 | Turfgrass Diseases | 3 |
| HORT 3310 | Best Management Practices in Turfgrass | 3 |
| HORT 3500 | Experiential Learning I in Golf Course | 2 |
| HORT 3510 | Soil Management | 3 |
| HORT 3520 | Computations in Turfgrass Maintenance | 2 |
| HORT 4320 | Management of Bermudagrass and Bentgrass | 3 |
| HORT 4330 | Golf Course Construction, Renovation and Grow-In | 3 |
| HORT 4500 | Experiential Learning II in Golf Course | 2 |
| HORT 4610 | Turfgrass Resources | 3 |
| HORT 4700 | International Experiential Learning | 3 |
| BUSA 3150 | Business Finance OR | |
| MKTG 3800 | Principles of Marketing | 3 |
| MGMT 3670 | Human Resource Management | 3 |
| MGMT 4260 | Small Business Management | 3 |

TOTAL 120

PHED 1100 and two PE electives

- 120 hours required for BAS degree.
- Regents' Exam is required.
- An appropriate AAS** degree or at least 45 applicable credit hours and the lower division requirements must be met before admission to the BAS program.

* Students should closely follow advisors' recommendations for appropriate selections in Area D science.

**Appropriate AAS degrees are Commercial Turf Management, Golf Clubhouse Management, Golf Turf Management, Landscape Design and Grounds Management, Ornamental Production, and Sports Turf Management.

AGRIBUSINESS AND AGRICULTURAL ECONOMICS

The curriculum for the freshman and sophomore years has been designed to provide core courses in introductory agricultural sciences and general education. A student who completes this curriculum will receive the Associate of Science degree and will be prepared to enter a program of study in Agribusiness and/or Agricultural Economics.

Core Curriculum: Areas A-E (See ABAC Core Curriculum, using Area D Non-Science option)

Area F: 18 Hours Directed Electives*

Select 18 hours from the following:

| | | |
|-----------------|---------------------------------------|-----|
| AECO 2258 | Applied Economics OR | |
| ECON 2106 | Principles of Microeconomics | 3 |
| AENG 2207 | Introductory Metal Technology | 3 |
| AENT 1113 | Power Equipment | 3 |
| AENT 2280 | Farm Electrification | 3 |
| ASLH 2000 | Practicum in Animal Science | 3 |
| ASLH 2010 | Introduction to Animal Science | 3 |
| ASLH 1125 | Introduction to Poultry Science | 3 |
| ASLH 2203 | Elements of Dairying | 3 |
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| CISM 2201 | Fundamentals of Computer Applications | 3 |
| CRSS 2010 & lab | Introduction to Crop Science and Lab | 3/1 |
| CSCI 1301 | Computer Science I | 4 |
| ECON 2105 | Principles of Macroeconomics | 3 |
| HORT 2201 | Principles of Horticulture | 3 |
| JRNL 1101 | Introduction to Mass Media | 3 |
| JRNL 2101 | Media, Culture and Society | 3 |
| JRNL 2510 | News Writing and Reporting | 3 |
| MATH 2000 | Statistics | 3 |
| MATH 2003 | Applied Calculus | 3 |
| MATH 2053 | Calculus I | 4 |
| MATH 2054 | Calculus II | 4 |

TOTAL 60

PHED 1100 and two PE electives

*See advisor for assistance in Area D and Area F course selection

AREA D Recommendations: BIOL 2107 & lab and BIOL 2108 & lab should be the sequence.

AGRICULTURE

The curriculum is for students who have not focused on their particular major, but are interested in a bachelor's degree within agriculture. This major does not target the lower division requirements of any particular major offered at a four-year institution. Students in this major are encouraged to work with their academic advisor in order to change majors as quickly as possible to an appropriate major that supports the student's career goals.

Core Curriculum: Areas A-E (See ABAC Core Curriculum, using Area D Non-Science option)

Area F: 18 Hours Directed Electives *

**CISM 2201 Fundamentals of Computer Applications 3

Select 15 hours from the following:

| | | |
|-----------------|---|-----|
| ACCT 2101 | Principles of Accounting I | 3 |
| ACCT 2102 | Principles of Accounting II | 3 |
| AECO 2258 | Applied Economics OR | |
| ECON 2106 | Principles of Microeconomics | 3 |
| AENT 1113 | Power Equipment | 3 |
| AENT 2280 | Farm Electrification | 3 |
| AENG 2207 | Introductory Metal Technology | 3 |
| ASLH 2000 | Practicum in Animal Science | 3 |
| ASLH 2010 | Introduction to Animal Science | 3 |
| ASLH 1125 | Introduction to Poultry Science | 3 |
| ASLH 2203 | Elements of Dairying | 3 |
| BIOL 1003 & lab | Introductory Biology I | 3/1 |
| BIOL 1004 & lab | Introductory Biology II and Lab OR | 3/1 |
| BIOL 2107 & lab | Principles of Biology I | 3/1 |
| BIOL 2108 & lab | Principles of Biology II | 3/1 |
| CHEM 1211 & lab | Principles of Chemistry I | 3/1 |
| CHEM 1212 & lab | Principles of Chemistry II | 3/1 |
| CRSS 2010 & lab | Introduction to Crop Science | 3/1 |
| CSCI 1301 | Computer Science I | 4 |
| ECON 2105 | Principles of Macroeconomics | 3 |
| EDUC 2110 | Investigating Critical and Contemporary Issues in Education | 3 |
| EDUC 2120 | Exploring Socio-cultural Perspectives on Diversity in Educational Contexts | 3 |
| EDUC 2130 | Exploring Learning and Teaching | 3 |
| HORT 2201 | Principles of Horticulture | 3 |
| JRNL 1101 | Introduction to Mass Media | 3 |
| JRNL 2101 | Media, Culture and Society | 3 |
| JRNL 2510 | News Writing and Reporting | 3 |
| MATH 1113 | Pre-Calculus Mathematics | 4 |
| MATH 2000 | Statistics | 3 |
| MATH 2003 | Applied Calculus | 3 |
| MATH 2053 | Calculus I | 4 |

TOTAL 60

PHED 1100 and two PE activities

*See advisor for assistance in Area F course selection.

**With advisor approval, a student may count CISM in AREA B. Students using CISM in AREA B will select 18 hours from the list of AREA F courses.

AGRICULTURAL EDUCATION

The curriculum for the freshman and sophomore years has been designed to provide core courses in introductory agricultural sciences and general education. A student who completes this curriculum will receive the Associate of Science degree and will be prepared to enter a program of study in Agricultural Education.

Core Curriculum: Areas A-E (See ABAC Core Curriculum, using Area D Science option)*

Area F: 18 Hours Directed Electives **

Required twelve hours:

| | | |
|-----------|--|---|
| CISM 2201 | Fundamentals of Computer Applications | 3 |
| EDUC 2110 | Investigating Critical and Contemporary Issues in Education | 3 |
| EDUC 2120 | Exploring Socio-Cultural Perspectives on Diversity in Educational Contexts | 3 |
| EDUC 2130 | Exploring Learning and Teaching | 3 |

Choose at least six hours from the following:

| | | |
|-----------------|-------------------------------|---|
| AENG 2207*** | Introductory Metal Technology | 3 |
| AENT 1113*** | Power Equipment | 3 |
| AENT 2280*** | Farm Electrification | 3 |
| ASLH 2010 | Intro to Animal Science | 3 |
| CRSS 2010 & lab | Introduction to Crop Science | 4 |
| HORT 2201 | Principles of Horticulture | 3 |
| PHSC 1011 & lab | Physical Science I | 4 |

TOTAL 60

PHED 1100 and two PE electives

*Ag Ed majors are exempt from the Area D sequence requirement for Science majors.

Area D Recommendations: BIOL 2107 & lab, CHEM 1211 & lab, and PHSC 1011 & lab.

**See advisor for assistance in Area D and Area F course selection

***It is recommended that you take these courses prior to transferring to UGA-Athens or UGA-Tifton.

AGRISCIENCE AND ENVIRONMENTAL SYSTEMS

The curriculum for the freshman and sophomore years has been designed to provide core courses in introductory agricultural sciences and general education. A student who completes this curriculum will receive the Associate of Science degree and will be prepared to enter a program of study in Agriscience and/or Environmental Systems.

Core Curriculum: Areas A-E (See ABAC Core Curriculum, using Area D Science option)*

Area F: 18 Hours Directed Electives **

Select 6-8 hours from the following:

| | | |
|-----------|--|-------|
| ASLH 2010 | Introduction to Animal Science or | |
| ASLH 1125 | Introduction to Poultry Science | 3 |
| CRSS 2010 | Introduction to Crop Science or | |
| HORT 2201 | Principles of Horticulture | 3 - 4 |

Select 10-12 hours from the following:

| | | |
|-----------------|--------------------------------------|-----|
| AECO 2258 | Applied Economics | 3 |
| AENG 2207 | Introductory Metal Technology | 3 |
| AENT 1113 | Power Equipment | 3 |
| CHEM 1211& lab | Principles of Chemistry I | 3/1 |
| CHEM 1212 & lab | Principles of Chemistry II | 3/1 |
| CHEM 2040 & lab | Fundamental Organic Chemistry I | 3/1 |
| CHEM 2041 & lab | Fundamental Organic Chemistry II | 3/1 |
| CISM 2201 | Fundamental of Computer Applications | 3 |

TOTAL 60

PHED 1100 and two PE electives

**AREA D Recommendations:* BIOL 2107 & lab and BIOL 2108 & lab should be the sequence.

***See advisor for assistance in Area F course selection*

ANIMAL SCIENCES

The curriculum for the freshman and sophomore years has been designed to provide core courses in introductory animal sciences and general education. A student who completes this curriculum will receive the Associate of Science degree and will be prepared to enter a program of study in one of the following fields of interest:

- Animal Science
- Dairy Science
- Poultry Science

Core Curriculum: Areas A-E (See ABAC Core Curriculum, using Area D Science option)*

Area F: 18 Hours Directed Electives **

Required twelve hours:

| | | |
|-----------|---------------------------------------|---|
| AECO 2258 | Applied Economics | 3 |
| ASLH 2000 | Practicum in Animal Science | 3 |
| ASLH 2010 | Introduction to Animal Science | 3 |
| CISM 2201 | Fundamentals of Computer Applications | 3 |

Choose at least six hours from the following:

| | | |
|-----------------|--------------------------------------|-----|
| ASLH 1125 | Introduction to Poultry Science | 3 |
| ASLH 2203 | Elements of Dairying | 3 |
| CHEM 1212 & lab | Principles of Chemistry II and lab | 3/1 |
| CRSS 2010 & lab | Introduction to Crop Science and Lab | 3/1 |

TOTAL 60

PHED 1100 and two PE electives

*Area D Recommendations: BIOL 2107 & lab, BIOL 2108 & lab, and CHEM 1211 & lab.

BIOLOGICAL AND AGRICULTURAL ENGINEERING

Agricultural engineering is that branch of engineering which is concerned with problems of agriculture that are engineering in nature. Agriculture of today and the future has and will have its emphasis on diversity, automation, efficiency, quality and abundant production.

The expansion in the field of agricultural engineering has created an increasing need for individuals trained as professionals in basic science, agricultural and engineering subjects. These professionals will be engaged in industry with machinery companies, feed manufacturers, electric power suppliers, building material suppliers, government service with the Soil Conservation Service, Agricultural Research Service, Agricultural Marketing Service, activities of the United States Department of Agriculture, teaching, research, or extension at colleges and universities, or self-employed as consultants, contractors, or sales engineers. A student who completes this curriculum will receive the Associate in Science degree.

Core Curriculum: Areas A-E (See ABAC Core Curriculum, using Area D Science option)

Area F: 18 Hours Directed Electives *

| | |
|---|-----------|
| BIOL 2107 & lab Principles of Biology I/Lab | 3/1 |
| Select 4-12 hours from the following: | |
| MATH 2053 Calculus I | 4 |
| MATH 2054 Calculus II | 4 |
| MATH 2055 Calculus III | 4 |
| Select 4-8 hours from the following: | |
| PHYS 2211 & lab | 3/1 |
| PHYS 2212 & lab | 3/1 |
| Select 0-6 hours from the following: | |
| AENG 1109 Engineering Graphics | 3 |
| AENT 1113 Power Equipment | 3 |
| TOTAL | 60 |

PHED 1100 and two PE activities

*See advisor for assistance in Area F course selection.

FOREST RESOURCES

The educational preparation for professionals in forest resources is necessarily diversified and demanding. The quality of our physical environment and, ultimately, the quality of human life, rests to a great extent in the hands of forest resources personnel. The graduate in forest resources must be capable of making sound natural resources policy decisions which contribute heavily to social and economic well-being.

The curriculum prepares students to transfer to the University of Georgia as juniors. Although courses satisfactorily completed in meeting the core curriculum at Abraham Baldwin are accepted in transfer to the University of Georgia, completion of the prescribed pre-forest resources curriculum is required for admission to the professional program of the School of Forest Resources at the University of Georgia. If the student plans to transfer to a senior college other than the University of Georgia, he/she should inform the faculty advisor of such intentions. Students completing this curriculum will receive the Associate of Science degree.

Core Curriculum: Areas A-E (See ABAC Core Curriculum, using Area D Science option)

Area F: 18 Hours Directed Electives *

| | | |
|-----------------|----------------------------|-----|
| MATH 2000 | Statistics | 3 |
| CHEM 1211 & lab | Principles of Chemistry I | 3/1 |
| CHEM 1212 & lab | Principles of Chemistry II | 3/1 |
| COMM 1100 | Human Communications | 3 |

For Forestry, Wildlife, and Fisheries/Aquaculture majors, choose four hours from the following electives:

| | | |
|---|-------------------------------|---|
| FRSC 1170 | Dendrology | 3 |
| FRSC 1190 | Natural Resource Conservation | 3 |
| FRSC 1192 | Forest Wildlife Management | 3 |
| FRSC 2263 | Advanced Wildlife Technology | 3 |
| Math or Lab Science approved by advisor | | 1 |

For Water and Soil Resources majors, choose:

| | | |
|-----------------|---------------------------|-----|
| PHYS 1111 & lab | Introduction to Physics I | 3/1 |
|-----------------|---------------------------|-----|

TOTAL 60

PHED 1100 and two PE activities

*See advisor for assistance in Area F course selection.

NOTE: Selected Forestry or Wildlife Management courses offered at Abraham Baldwin College may be transferred to the University of Georgia in addition to the 60 hours listed above.

PLANT SCIENCES

The curriculum for the freshman and sophomore years has been designed to provide core courses in introductory plant sciences and general education. A student who completes this curriculum will receive the Associate of Science degree and will be prepared to enter a program of study in one of the following fields of interest:

| | |
|---------------|--------------|
| Plant Science | Crop Science |
| Soil Science | Turf Science |
| Agronomy | Horticulture |

Core Curriculum: Areas A-E (See ABAC Core Curriculum, using Area D Science option)*

Area F: 18 Hours Directed Electives **

Required thirteen hours:

| | | |
|-----------------|---------------------------------------|-----|
| AECO 2258 | Applied Economics | 3 |
| CISM 2201 | Fundamentals of Computer Applications | 3 |
| CRSS 2010 & lab | Introduction to Crop Science | 3/1 |
| HORT 2201 | Principles of Horticulture | 3 |

Choose at least five hours from the following:

| | | |
|-----------------|--------------------------------|-----|
| AENT 1113 | Power Equipment | 3 |
| ASLH 2010 | Introduction to Animal Science | 3 |
| CHEM 1211 & lab | Principles of Chemistry I | 3/1 |
| CHEM 1212 & lab | Principles of Chemistry II | 3/1 |
| FRSC 1190 | Natural Resource Conservation | 3 |
| FRSC 1192 | Forest Wildlife Management | 3 |

TOTAL 60

PHED 1100 and two PE electives

*Area D Recommendations: BIOL 2107 & lab, BIOL 2108 & lab, and CHEM 1211 & lab.

AGRICULTURAL BUSINESS TECHNOLOGY

The two-year program is designed to prepare a student for employment in occupations in agricultural management, mid-management or marketing which require an agricultural college education but not necessarily a senior college degree. The course of study includes a general education core, general business and agribusiness courses, plus a choice of agricultural specialties. Upon completion of the graduation requirements, an Associate of Applied Science degree in Agricultural Business Technology is awarded.

| COURSES | | Hours |
|----------------|---------------------------------------|--------------|
| ACCT 2101 | Principles of Accounting I OR | |
| AECO 2200 | Agricultural Records. | 3 |
| AECO 1150 | Farm Organization and Management | 3 |
| AECO 2260 | Agricultural Marketing | 3 |
| CISM 2201 | Fundamentals of Computer Applications | 3 |
| COMM 1100 | Human Communications | 3 |
| ENGL 1101 | Composition I | 3 |
| ENGL 1102* | Composition II | 3 |
| HIST 2112 | United States History II | 3 |
| MATH 1101 | Math Modeling (or higher)*** | 3 |
| POLS 1101 | American Government | 3 |

Agricultural Specialty: Select any 3 courses from the following areas:

- Agricultural Engineering
- Animal Science
- Crop Science
- Soil Science
- Agriculture

subtotal 9-10 hrs

Business Specialty: Select any 2 classes from either of the following areas:

- Marketing
- Management

subtotal 6 hrs

| | | |
|---------------------|---|----|
| ACCT 2102 | Principles of Accounting II OR | |
| BUSA 2155 | Business Law OR | |
| BUSA 2106 | The Environment of Business | 3 |
| Humanities Elective | (see Humanities Electives for AAS Majors) | 3 |
| Internship** | | 12 |

TOTAL 63-64

PHED 1100 and two PE activities

* Grade of "C" or better in ENGL 1102.

**Internship options are AGRI 2202, 2203, 2204, 2205 or 2206. A student must complete 30 hours of course work before taking any internship course.

***Excluding MATH 2008

AGRICULTURAL ENGINEERING TECHNOLOGY

The Agricultural Engineering Technology Program is designed to educate a student in the repair, service, operation, and marketing of equipment used in agricultural production, industrial applications, and turfgrass management. This program of study is intended to provide young men and women with the education needed for entry-level positions in both the agricultural and industrial equipment areas. A student will also have received sufficient courses in the general education area to allow for rising to middle management level positions. Typical employment opportunities include parts manager, service manager, or service representative. Upon completion of the program of study, the student is eligible for the Associate of Applied Science degree in Agricultural Engineering Technology.

A grade of less than C indicates a level of knowledge that is unacceptable in a professional field. A student is required to earn a C or better in all AENG/AENT courses.

| | | |
|---------------------|---|----|
| BUSA 1105 | Introduction to Business | 3 |
| CISM 2201 | Fundamentals of Computer Applications | 3 |
| COMM 1100 | Human Communications | 3 |
| ENGL 1101 | Composition I | 3 |
| ENGL 1102 | Composition II | 3 |
| HIST 2112 | United States History II | 3 |
| Humanities Elective | (see Humanities Electives for AAS Majors) | 3 |
| MATH 1101 | Math Modeling (or higher)* | 3 |
| POLS 1101 | American Government | 3 |
| AECO 2258 | Applied Economics OR | |
| ECON 2106 | Principles of Microeconomics | 3 |
| AENG 2207 | Introductory Metal Technology | 3 |
| AENT 1110 | Farm Machinery and Equipment | 3 |
| AENT 1120 | Principles of Engines | 3 |
| AENT 2213 | Principles of Hydraulics | 3 |
| AENT 2269** | Internship | 12 |
| AENT 2280 | Farm Electrification | 3 |

A student should select three of the following classes:

| | | |
|-----------|--|---|
| AECO 1150 | Farm Organization and Management | 3 |
| AECO 2260 | Agricultural Marketing | 3 |
| AENT 2220 | Drainage, Irrigation & Erosion Control | 3 |
| AGRP 1125 | Fundamentals of Plant Protection | 3 |
| AGRY 1110 | Forage Crops and Pastures | 3 |
| AGRY 2020 | Soils and Fertilizers | 4 |
| AGRY 2030 | Field Crop Production | 3 |
| ASLH 1110 | Livestock Evaluation and Selection | 3 |
| ASLH 1115 | Livestock Production | 3 |
| ASLH 2010 | Intro to Animal Science/Lab | 3 |
| FRSC 1190 | Natural Resource Conservation | 3 |
| FRSC 1192 | Forest Wildlife Management | 3 |
| HORT 2232 | Turf Pest Management | 3 |

TOTAL 66-68

PHED 1100 and two PE activities

*Excluding MATH 2008

**A student must complete 30 hours of course work before taking AENT 2269.

AGRICULTURE PRODUCTION TECHNOLOGY

The Agriculture Production curriculum is designed for a student desiring preparation in the production sector of agriculture. This training affords the student knowledge that will be of immediate value on a diversified farm. A student completing this course work will receive the Associate of Applied Science degree in Agricultural Technology.

| COURSES | Hours |
|--|--------------|
| CISM 2201 Fundamentals of Computer Applications | 3 |
| COMM 1100 Human Communications | 3 |
| ECON 2106 Principles of Microeconomics | 3 |
| ENGL 1101* Composition I | 3 |
| ENGL 1102* Composition II | 3 |
| HIST 2112 United States History II | 3 |
| Humanities Elective (see Humanities Electives for AAS Majors) | 3 |
| MATH 1101 Math Modeling (or higher)** | 3 |
| POLS 1101 American Government | 3 |
| AECO 1150 Farm Organization and Management | 3 |
| AECO 2200 Agricultural Records | 3 |
| AENG 2207 Introductory Metal Technology | 3 |
| AENT 1110 Farm Machinery and Equipment | 3 |
| AGRP 1125 Fundamentals of Plant Protection | 3 |
| AGRP 1126 Pesticide Management | 1 |
| AGRY 1110 Forage Crops and Pastures | 3 |
| AGRY 2020 Soils and Fertilizers | 4 |
| AGRY 2030 Field Crop Production | 3 |
| ASLH 2010 Intro to Animal Science/Lab | 3 |
| Internship*** | 12 |
| TOTAL | 69 |

PHED 1100 and two PE activities
Regents' Test

* Grade of "C" or better in ENGL 1101 and ENGL 1102.

**Excluding MATH 2008

***Internship options are AGRI 2202, 2203, 2204, 2205 or 2207. A student must complete 30 hours of course work before taking any internship course.

ENVIRONMENTAL HORTICULTURE TECHNOLOGY

Commercial Turf Management
Golf Turf Management
Ornamental Production

Landscape Design and Grounds Management
Sports Turf Management

Environmental Horticulture Technology offers training and education in these specialized areas for men and women. As highly skilled technicians and supervisory personnel, graduates obtain gainful employment in one of these highly specialized turfgrass, ornamental and landscape, or environmental industries. This program provides the individual with a detailed understanding of the technical requirements of the industry and helps the student develop the skills needed as golf course superintendent, sports field managers, professional lawn care managers, turf production managers, landscape designers and managers, and horticulturalists. Also, the program allows students the opportunity to further develop critical and logical thinking and problem solving skills, as well as information literacy skills, needed in the work place. Students trained in this program will find employment with golf courses, sports fields, commercial properties, contract maintenance, garden centers, athletic and recreational areas, production and retail nurseries, schools, colleges, lawn maintenance and landscape companies, and related horticultural and agronomic service and/or production careers.

To be eligible to receive the Associate of Applied Science degree in Environmental Horticulture, each student must complete the required courses of one specific management area. A grade of C or better is required for graduation in ENGL 1101, ENGL 1102, MATH 1101, and all classes with AGRP, AGRY and HORT prefixes.

Many students earn at least two of the above degrees to better prepare them for the work force, and improve their employability. The program is a mix of traditional and nontraditional students. Many nontraditional students enter the program with a previous degree and complete the technical classes within a year. Students lacking sufficient job training are encouraged to participate in a minimum of two internship (on job training) programs. Also students are encouraged to become a student member of the state and/or national professional trade organization (ie. Golf Course Superintendents Association of America, Georgia Golf Course Superintendents Association, Professional Landcare Network, American Association of Nurserymen, Southern Nurserymen Association, Georgia Green Industry Association, etc.) as applicable to their chosen major. Scholarships are available to specific majors from industry and professional organizations.

Student clubs in the department include The ABAC Student Chapter of the Golf Course Superintendents Association of America (Turf Club) and The Horticulture Club. The Torbett-Dobrosky Golf Facility on campus provides multiple experiential learning activities. Also, the college has its very own golf course, Forest Lakes Golf Club, which provides multiple experiential learning opportunities through teaching, demonstration, and competency performance for many of our students not only in golf turf and environmental horticulture but also in the many disciplines of agriculture. Furthermore, students get the opportunity to participate as tournament volunteers in course preparation and setup at select golf tournaments and participate in college representation at international meetings of GCSAA, STMA, etc.

ENVIRONMENTAL HORTICULTURE TECHNOLOGY**Commercial Turf Management**

| COURSES | | Hours |
|--|--|--------------|
| CISM 2201 | Fundamentals of Computer Applications | 3 |
| ENGL 1101 | Composition I | 3 |
| ENGL 1102 | Composition II | 3 |
| HIST 2112 | U. S. History II | 3 |
| Humanities Elective | (see Humanities Electives for AAS Majors) | 3 |
| MATH 1101 | Math Modeling (or higher)* | 3 |
| POLS 1101 | American Government | 3 |
| COMM 1100 | Human Communication | 3 |
| AGRP 1126 | Pesticide Applications | 1 |
| AGRP 1125 | Fundamentals of Plant Protection OR | |
| AGRY 2020 | Soils and Fertilizers | 3 - 4 |
| HORT 2100 | Professionalism in the Green Industry | 1 |
| HORT 2250** | Commercial Turf Intern (Experiential Learning) | 12 |
| HORT 2231 | Turfgrass Science and Technology | 3 |
| HORT 2232 | Turf and Ornamental Pest Management | 3 |
| HORT 2234 | Commercial Turf Management | 3 |
| HORT 2239 | Grounds Irrigation Systems | 3 |
| HORT 2270 | Woody Ornamental Plant Identification | 3 |
| Select 6 hours from the following: | | |
| ACCT 2101 | Principles of Accounting I | 3 |
| AECO 2200 | Agricultural Records | 3 |
| FACS 2225 | Professional Development | 3 |
| MGMT 2167 | Human Resource Management | 3 |
| SPAN 1110 | Spanish for Green Industry Professionals | 3 |
| Select 6 hours from below with advisor approval: | | |
| HORT 2201 | Principles of Horticulture | 3 |
| HORT 2202 | Grounds Maintenance Equipment | 3 |
| HORT 2208 | Experiential Learning in Turfgrass | 3 |
| HORT 2233 | Golf Course Design and Management | 3 |
| HORT 2236 | Environmental Issues | 3 |
| HORT 2238 | Fundamentals of Grinding Technology | 3 |
| HORT 2241 | Grounds Management | 4 |

TOTAL 68-69

PHED 1100 and two PE activities

*Excluding MATH 2008

**Student must complete 30 semester hours of course work and receive advisor approval before taking HORT 2250. HORT 2280 (Internship II) is available to students lacking in experience and needing additional internship training.

ENVIRONMENTAL HORTICULTURE TECHNOLOGY

Golf Turf Management

| COURSES | | Hours |
|--|--|-------|
| CISM 2201 | Fundamentals of Computer Applications | 3 |
| ENGL 1101 | Composition I | 3 |
| ENGL 1102 | Composition II | 3 |
| HIST 2112 | U. S. History II | 3 |
| Humanities Elective | (see Humanities Electives for AAS Majors) | 3 |
| MATH 1101 | Math Modeling (or higher)* | 3 |
| POLS 1101 | American Government | 3 |
| COMM 1100 | Human Communication | 3 |
| AGRP 1126 | Pesticide Applications | 1 |
| AGRP 1125 | Fundamentals of Plant Protection OR | |
| AGRY 2020 | Soils and Fertilizers | 3 - 4 |
| HORT 2100 | Professionalism in the Green Industry | 1 |
| HORT 2230** | Golf Turf Intern (Experiential Learning) | 12 |
| HORT 2231 | Turfgrass Science and Technology | 3 |
| HORT 2232 | Turf and Ornamental Pest Management | 3 |
| HORT 2233 | Golf Course Design & Management | 3 |
| HORT 2239 | Grounds Irrigation Systems | 3 |
| HORT 2270 | Woody Ornamental Plant Identification | 3 |
| Select 6 hours from the following: | | |
| ACCT 2101 | Principles of Accounting I | 3 |
| AECO 2200 | Agricultural Records | 3 |
| FACS 2225 | Professional Development | 3 |
| MGMT 2167 | Human Resource Management | 3 |
| SPAN 1110 | Spanish for Green Industry Professionals | 3 |
| Select 6 hours from below with advisor approval: | | |
| HORT 2201 | Principles of Horticulture | 3 |
| HORT 2202 | Grounds Maintenance Equipment | 3 |
| HORT 2208 | Experiential Learning in Turfgrass | 3 |
| HORT 2234 | Commercial Turf Management | 3 |
| HORT 2236 | Environmental Issues | 3 |
| HORT 2237 | Sports Turf Management | 3 |
| HORT 2238 | Fundamentals of Grinding Technology | 3 |
| HORT 2241 | Grounds Management | 4 |

TOTAL 68-69

PHED 1100 and two PE activities

*Excluding MATH 2008

**Student must complete 30 semester hours of course work and receive advisor approval before taking HORT 2230. HORT 2280 (Internship II) is available to students lacking in experience and needing additional internship training.

ENVIRONMENTAL HORTICULTURE TECHNOLOGY**Landscape Design and Grounds Management**

| COURSES | | Hours |
|--|--|--------------|
| CISM 2201 | Fundamentals of Computer Applications | 3 |
| ENGL 1101 | Composition I | 3 |
| ENGL 1102 | Composition II | 3 |
| HIST 2112 | U. S. History II | 3 |
| Humanities Elective | (see Humanities Electives for AAS Majors) | 3 |
| MATH 1101 | Math Modeling (or higher)* | 3 |
| POLS 1101 | American Government | 3 |
| COMM 1100 | Human Communication | 3 |
| AGRP 1126 | Pesticide Applications | 1 |
| AGRP 1125 | Fundamentals of Plant Protection OR | |
| AGRY 2020 | Soils and Fertilizers | 3 - 4 |
| HORT 2100 | Professionalism in the Green Industry | 1 |
| HORT 2215 | Landscape Design | 4 |
| HORT 2232 | Turf and Ornamental Pest Management | 3 |
| HORT 2240** | Grounds Intern (Experiential Learning) | 12 |
| HORT 2241 | Grounds Management | 4 |
| HORT 2270 | Woody Ornamental Plant Identification | 3 |
| Select 6 hours from the following: | | |
| ACCT 2101 | Principles of Accounting I | 3 |
| AECO 2200 | Agricultural Records | 3 |
| FACS 2225 | Professional Development | 3 |
| MGMT 2167 | Human Resource Management | 3 |
| SPAN 1110 | Spanish for Green Industry Professionals | 3 |
| Select 6 hours from below with advisor approval: | | |
| HORT 2201 | Principles of Horticulture | 3 |
| HORT 2202 | Grounds Maintenance Equipment | 3 |
| HORT 2207 | Experiential Learning in Landscaping | 3 |
| HORT 2231 | Turfgrass Science and Technology | 3 |
| HORT 2233 | Golf Course Design and Management | 3 |
| HORT 2236 | Environmental Issues | 3 |
| HORT 2239 | Grounds Irrigation Systems | 3 |
| HORT 2261 | Nursery Crop Production | 4 |
| HORT 2271 | Herbaceous Ornamental Plant Identification | 3 |

TOTAL 67-68

PHED 1100 and two PE activities

*Excluding MATH 2008

**Student must complete 30 semester hours of course work and receive advisor approval before taking HORT 2240. HORT 2280 (Internship II) is available to students lacking in experience and needing additional internship training.

ENVIRONMENTAL HORTICULTURE TECHNOLOGY

Ornamental Production

| COURSES | Hours | |
|--|--|-------|
| CISM 2201 | Fundamentals of Computer Applications | 3 |
| ENGL 1101 | Composition I | 3 |
| ENGL 1102 | Composition II | 3 |
| HIST 2112 | U. S. History II | 3 |
| Humanities Elective | (see Humanities Electives for AAS Majors) | 3 |
| MATH 1101 | Math Modeling (or higher)* | 3 |
| POLS 1101 | American Government | 3 |
| COMM 1100 | Human Communication | 3 |
| AGRP 1126 | Pesticide Applications | 1 |
| AGRP 1125 | Fundamentals of Plant Protection or | |
| AGRY 2020 | Soils and Fertilizers | 3 - 4 |
| HORT 2100 | Professionalism in the Green Industry | 1 |
| HORT 2201 | Principles of Horticulture | 3 |
| HORT 2220** | Production Intern (Experiential Learning) | 12 |
| HORT 2221 | Greenhouse Operations and Management | 4 |
| HORT 2261 | Nursery Crop Production | 4 |
| HORT 2270 | Woody Ornamental Plant Identification | 3 |
| Select 6 hours from the following: | | |
| ACCT 2101 | Principles of Accounting I | 3 |
| AECO 2200 | Agricultural Records | 3 |
| FACS 2225 | Professional Development | 3 |
| MGMT 2167 | Human Resource Management | 3 |
| SPAN 1110 | Spanish for Green Industry Professionals | 3 |
| Select 6 hours from below with advisor approval: | | |
| HORT 2202 | Grounds Maintenance Equipment | 3 |
| HORT 2206 | Experiential Learning in Production | 3 |
| HORT 2232 | Turf and Ornamental Pest Management | 3 |
| HORT 2236 | Environmental Issues | 3 |
| HORT 2239 | Grounds Irrigation Systems | 3 |
| HORT 2241 | Grounds Management | 4 |
| HORT 2271 | Herbaceous Ornamental Plant Identification | 3 |

TOTAL 67-68

PHED 1100 and two PE activities

*Excluding MATH 2008

**Student must complete 30 semester hours of course work and receive advisor approval before taking HORT 2220. HORT 2280 (Internship II) is available to students lacking in experience and needing additional internship training.

ENVIRONMENTAL HORTICULTURE TECHNOLOGY**Sports Turf Management**

| COURSES | Hours | |
|--|--|-------|
| CISM 2201 | Fundamentals of Computer Applications | 3 |
| ENGL 1101 | Composition I | 3 |
| ENGL 1102 | Composition II | 3 |
| HIST 2112 | U. S. History II | 3 |
| Humanities Elective | (see Humanities Electives for AAS Majors) | 3 |
| MATH 1101 | Math Modeling (or higher)* | 3 |
| POLS 1101 | American Government | 3 |
| COMM 1100 | Human Communication | 3 |
| AGRP 1126 | Pesticide Applications | 1 |
| AGRP 1125 | Fundamentals of Plant Protection or | |
| AGRY 2020 | Soils and Fertilizers | 3 - 4 |
| HORT 2100 | Professionalism in the Green Industry | 1 |
| HORT 2260** | Sports Turf Intern (Experiential Learning) | 12 |
| HORT 2231 | Turfgrass Science and Technology | 3 |
| HORT 2232 | Turf and Ornamental Pest Management | 3 |
| HORT 2237 | Sports Turf Management | 3 |
| HORT 2239 | Grounds Irrigation Systems | 3 |
| HORT 2270 | Woody Ornamental Plant Identification | 3 |
| Select 6 hours from the following: | | |
| ACCT 2101 | Principles of Accounting I | 3 |
| AECO 2200 | Agricultural Records | 3 |
| FACS 2225 | Professional Development | 3 |
| MGMT 2167 | Human Resource Management | 3 |
| SPAN 1110 | Spanish for Green Industry Professionals | 3 |
| Select 6 hours from below with advisor approval: | | |
| HORT 2201 | Principles of Horticulture | 3 |
| HORT 2202 | Grounds Maintenance Equipment | 3 |
| HORT 2208 | Experiential Learning in Turfgrass | 3 |
| HORT 2233 | Golf Course Design and Management | 3 |
| HORT 2236 | Environmental Issues | 3 |
| HORT 2238 | Fundamentals of Grinding Technology | 3 |
| HORT 2241 | Grounds Management | 4 |

TOTAL 68-69

PHED 1100 and two PE activities

*Excluding MATH 2008

**Student must complete 30 semester hours of course work and receive advisor approval before taking HORT 2260. HORT 2280 (Internship II) is available to students lacking in experience and needing additional internship training.

FOREST TECHNOLOGY

The objective of this major is to educate students in the basic concepts and practical techniques of forestry. It is intended that graduates will function in a supporting capacity to professional foresters in private, state, and federal organizations.

To receive the Associate of Applied Science degree in Forestry, a student must complete the following courses. A minimum grade of "C" is required for successful completion of ENGL 1101, MATH 1101, and all courses with an FRSC prefix. First year courses are listed in the general order in which they should be taken. ENGL 1101, MATH 1101, FRSC 1190 and AENT 1113 must be successfully completed prior to taking the second year "blocks".

FIRST YEAR

| Course | Hours | |
|---------------------|---|---|
| ENGL 1101 | Composition I | 3 |
| MATH 1101 | Math Modeling (or higher)* | 3 |
| FRSC 1190 | Natural Resource Conservation | 3 |
| AENT 1113 | Power Equipment | 3 |
| ENGL 1102 | Composition II | 3 |
| COMM 1100 | Human Communications | 3 |
| HIST 2112 | United States History II | 3 |
| Humanities Elective | (see Humanities Electives for AAS Majors) | 3 |
| POLS 1101 | American Government | 3 |

SECOND YEAR

| Course | Hours | |
|-----------|------------------------------------|---|
| FRSC 1155 | Microcomputers in Forest Resources | 2 |
| FRSC 1170 | Dendrology | 3 |
| FRSC 2225 | Forest Measurements I | 2 |
| FRSC 2230 | Forest Ecology & Soils | 4 |
| FRSC 2235 | Forest Surveying & Mapping | 4 |
| FRSC 2240 | Forest Safety | 1 |
| FRSC 2243 | Geographic Info Systems | 4 |
| FRSC 2250 | Forest Protection | 2 |
| FRSC 2255 | Forest Measurements II | 5 |
| FRSC 2265 | Silviculture | 4 |
| FRSC 2270 | Principles of Supervision | 2 |
| FRSC 2275 | Forest Industries | 2 |
| FRSC 2280 | Forest Harvesting | 2 |
| FRSC 2285 | Forestry Seminar | 1 |
| FRSC 2290 | Timber Management | 5 |

TOTAL 70

PHED 1100 and two PE activities
Regents' Test

*Excluding MATH 2008

WILDLIFE TECHNOLOGY

The objective of this major is to educate a student in the basic concepts and techniques of Wildlife Management. It is intended that a student who graduates under this program will function in a supporting capacity to professionals employed by private, state, and federal organizations. To receive the Associate of Applied Science degree in Wildlife Technology, a student must complete the following courses. A grade of C or better is required in ENGL 1101, MATH 1101, and all courses with an FRSC prefix.

First Year

| COURSES | Hours | |
|-----------|------------------------------------|---|
| ENGL 1101 | Composition I | 3 |
| ENGL 1102 | Composition II | 3 |
| MATH 1101 | Math Modeling (or higher)* | 3 |
| AENT 1113 | Power Equipment | 3 |
| FRSC 1170 | Dendrology | 3 |
| FRSC 1130 | Soils & Herbaceous Vegetation | 3 |
| FRSC 1140 | Forest Measurements & Mapping I | 3 |
| FRSC 1155 | Microcomputers in Forest Resources | 2 |
| FRSC 1190 | Natural Resource Conservation | 3 |
| FRSC 1192 | Forest Wildlife Management | 3 |
| HIST 2112 | United States History II | 3 |

Summer Session

| COURSES | Hours | |
|------------------------------------|------------------------------|---|
| FRSC 2240 | Forest Safety | 1 |
| FRSC 2260 | Conservation Law Enforcement | 3 |
| FRSC 2261 | Forest Game Management | 3 |
| FRSC 2262 | Aquatic Resource Management | 3 |
| Elective (not required for degree) | | |
| FRSC 2266 | Aquatic Habitat Management | 3 |

Second Year

| COURSES | Hours | |
|---|------------------------------|-----|
| BIOL 2107 & lab | Principles of Biology I | 3/1 |
| BIOL 2108 & lab | Principles of Biology II | 3/1 |
| FRSC 1160 | Forest Surveying | 3 |
| FRSC 1135 | Nongame Wildlife | 2 |
| FRSC 2265 | Silviculture | 4 |
| FRSC 2263 | Advanced Wildlife Technology | 3 |
| FRSC 2270 | Principles of Supervision | 2 |
| POLS 1101 | American Government | 3 |
| COMM 1100 | Human Communications | 3 |
| FRSC 2264 | Wildlife Seminar | 1 |
| Humanities Elective (see Humanities Electives for AAS Majors) | | 3 |

TOTAL 74-77

PHED 1100 and two PE activities
Regents' Test

*Excluding MATH 2008