

Programs

AGRIBUSINESS (AB)

Faculty:

Thomas C. Slane, Jr., Chairperson

Agribusiness, the global food system, accounts for twenty percent of the U.S. economy and employs almost one-fifth of the work force. Agribusiness firms need well-trained employees prepared in both management and agricultural sciences. These key people will manage the businesses that provide supplies and services to producers and firms that transform and market raw agricultural products into food for consumers and byproducts for industrial use.

Agribusiness students develop knowledge in business and agriculture, management expertise, leadership ability and creativity in thought, problem solving and expression. Student abilities are expanded through the comprehensive program of course work, employment experience, and participation with agribusiness professionals. The learning environment is extended to the resource people and facilities of industry and government throughout the northeastern region.

This curriculum provides training encouraging students to be involved with the social, economic, political, as well as the technological changes taking place in the world. Students will be prepared for careers in food, agribusiness, and the environment. Recent graduates in Agribusiness have located positions in the following areas: Financial Consultant, Training & Publication Specialist, Flock Manager, Crop Consultant, Farm Market Manager, Nursery Manager, Animal Health Product Sales, Pharmaceutical Sales, Plant Protection Quarantine

Officer, Quality and Water Analyst, and Product Research and Development.

Students are advised to select minor, specialization or elective courses which enable them to focus on an area of their personal interest. For example, Agribusiness: Supply and Service students may want to consider Agronomy and Environmental Science, Restaurant and Foodservice Management, Horticulture or Ornamental Horticulture and Environmental Design. Agribusiness: Marketing and Management students may want to consider Accounting, Financial Services, Management Information Systems or Marketing.

The total number of credits required for graduation with a degree in Agribusiness is 124 plus 4 credits earned for successful completion of the Employment Program.

RECOMMENDED COURSE SEQUENCE

FRESHMAN YEAR

First Semester

Course No.	Course Title	Credits
AB 2225	Agricultural Economics.....	3
BY 1115	Natural Science I.....	3
EN 1101	English I.....	3
IT 1011	Information Technology Concepts	1.5
IT 1012	Computer Applications.....	1.5
LA 1020	Skills for College Success.....	1
MP 1102	College Algebra or	
MP 1203	Elementary Functions or	
MP 1205	Finite Mathematics	3
Total		16

Programs

Second Semester

BA 1005	Introduction to Business	3
CH 1001	Chemistry Fundamentals	3
CH 1001L	Chemistry Fundamentals Lab	1
EN 1201	English II.....	3
IT 1031	Intermediate Computer Applications....	3
MP 1203	Elementary Functions or	
MP 1205	Finite Mathematics or	
MP 1204	Calculus I.....	3-4
Total		16-17

Employment Program

AB 2370	Employment Program.....	1-2
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SOPHOMORE YEAR

First Semester

Course No.	Course Title	Credits
AS 1006	Introduction to Animal Science	3
BA 2008	Macroeconomics	3
BA 2123	Principles of Accounting I	3
BA 2161	Business Law I	3
MP 2215	Statistics for Business.....	4
PE 1109	Physical Education I	1
Total		17

Second Semester

AE 2202	Field Crops I.....	3
BA 1009	Principles of Management.....	3
BA 2224	Principles of Accounting II.....	3
EN 2226	Professional Communications	3
LA 2005	Speech.....	3
PE 1209	Physical Education II	1
Total		16

Employment Program

AB 2370	Employment Program.....	1-2
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JUNIOR YEAR

First Semester

Course No.	Course Title	Credits
AB 3126	Agricultural Marketing	3
BA 3127	Finance.....	3
BA 3129	Operations Management	3
FS 3120	Introduction to Nutrition or	
HT 4132	Principles of Plant Protection.....	3
	Elective.....	3
Total		15

Second Semester

AB 4243	Agribusiness Management.....	3
BA 3027	Human Resource Management	3
EN 2028	Introduction to Literature	3
	Humanities Area.....	3
	Elective.....	3
Total		15

SENIOR YEAR

First Semester

Course No.	Course Title	Credits
AB 4113	Farm Management or	
BA 3141	Small Business Management or	
BA 3229	Organizational Behavior.....	3
LA 4037	Non-Western Societies	3
	Humanities Area.....	3
	Social Science Area	3
	Elective.....	3
Total		15

Second Semester

AB 4242	Food and Agricultural Policy	3
BA 4236	Federal Income Tax.....	3
LA 1060	Introduction to Fine Arts	3
	Electives	5
Total		14

Social Sciences Area: select one of the following:

LA 2012	Introduction to Sociology.....	3
LA 2036	Introduction to Psychology	3
LA 4203	Social Psychology and Human Interaction	3

Humanities Area: select two courses from the following:

LA 2040	Modern History of Western Societies ...	3
LA 2042	Introduction to Philosophy	3
LA 2138	History of Western Civilization I.....	3
LA 3032	American History and Government since 1877.....	3
LA 4127	United States Foreign Policy	3

Agribusiness Minor

Students in most majors may complete a minor in Agribusiness to better prepare for job opportunities in the global food production and marketing system. One course may be substituted with prior approval of the department.

Course No.	Course Title	Credits
AB 2225	Agricultural Economics.....	3
AB 3126	Agricultural Marketing	3
*BA 3141	Small Business Management.....	3
*AB 4113	Farm Management	3
AB 4242	Food and Agricultural Policy	3
Total		15

* Requires prerequisite.

AGRONOMY AND ENVIRONMENTAL SCIENCE (AE)

Faculty:

Barbara Muse, Chairperson
 Steven S. DeBroux
 Lawrence D. Hepner, Jr.
 Douglas T. Linde
 Ronald R. Muse

Students studying in the Agronomy and Environmental Science area can select from three majors: Soils and Environmental Science, Crop Science, and Turf Management.

The Environmental Science major focus is placed on the environmental issues facing society today and the knowledge and training necessary to deal with these complex problems. Computers and geographic information systems aid in analysis and visual display of information. Interdisciplinary courses from the Chemistry and Biology Departments strengthen the Environmental Science portion of the curriculum.

The Crop Science major prepares students for science-based technical courses in agricultural production or work in associated agricultural industries. Agriculture is one of the largest sectors of the national economy and positions are numerous. Students interested in the biological and chemical sciences will find challenges in biotechnology as they look forward to a career in improving the quality and quantity of our food supply.

The Turf Management major prepares students for careers in the golf course industry, sports turf industry, and lawn care industry. Courses that provide technical competence plus business and management expertise are key components of the curriculum. An active turf club provides professional contacts and experiences outside the classroom.

Students in all majors take advantage of our 500 acre living laboratory containing turf and crop demonstration plots, putting green, sports fields, wetlands, forested land, streams, and agricultural land.

Undergraduate students participate in ongoing faculty research.

Effective utilization of elective credits provides the opportunity to minor in a subject area outside the department in each of the majors.

A degree in the Agronomy and Environmental Science Department offers a wide variety of career opportunities. Graduates find opportunities for employment in both the public and private sectors. In private industry they serve as consultants on environmental problems involving land use, waste disposal and other soil and water contamination problems. In the crop industry they serve as consultants and field representatives for fertilizer, insecticide, herbicide, seed and equipment companies. In the turf industry, graduates serve as golf course superintendents, sports field managers, and lawn care specialists. Trained Agronomists manage farm production operations or work in production and marketing for agricultural industries. Federal, state and local governments offer job opportunities in soil and water conservation, and in the area of environmental protection. Others enter graduate programs available throughout the country.

The total number of credits required for graduation with a degree in Agronomy and Environmental Science is 127 credits for the Environmental Science Major, 128 credits for the Crop Science Major, and 127 credits for the Turf Management Major.

RECOMMENDED COURSE SEQUENCE

Environmental Science Major

FRESHMAN YEAR

First Semester

Course No.	Course Title	Credits
AE 1120	Urban/Rural Systems and the Environment	3
CH 1103	General Chemistry I.....	3
CH 1103L	General Chemistry I Lab.....	1
EN 1101	English I.....	3
IT 1011	Information Technology Concepts	1.5
IT 1012	Computer Applications	1.5
LA 1020	Skills for College Success	1
MP 1102	College Algebra or	
MP 1203	Elementary Functions	3
PE 1109	Physical Education I	1
Total		18

Second Semester

AE 4211	Seminar.....	1
CH 1203	General Chemistry II.....	3
CH 1203L	General Chemistry II Lab	1
EN 1201	English II.....	3