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Agribusiness Science & Technology - Agronomy Program

Course Curriculum

Semester 01 (Tuition: \$2,470)

Course #	Course Title	Credits
10-006-116	Introduction to Soils	3
Credits: 3 Lecture Hours: 36 Lab Hours: 36		
Course is designed to provide the student with fundamental knowledge of soil and soil composition. Students will study soil types, formation factors, physical properties, biological properties and basic soil chemistry. Units covering tillage, conservation, pH and soil management will also be included. Students will gain the skills required to interpret soil survey maps and recognize qualities of various soil types. The student will perform soil sampling, residue measurements, compaction assessments and soil loss determinations per crop rotation guidelines.		
10-006-159	Agribusiness Computer Applications	1
Credits: 1 Lecture Hours: 18		
Students will construct, manipulate, and select spreadsheets and documents for various situations in the agriculture industry and on a farm. Data gathering agriculture software will be introduced to demonstrate its use in making management decisions. The use of email features used in business will be explored. Pre/Co-requisites: Beginning Microsoft Excel (10-103-106)		
10-006-160	Plant Science	3
Credits: 3 Lecture Hours: 36 Lab Hours: 36		
Provides fundamental knowledge of plant components and their functions. Topics include pollinating and propagating plants, germinating seeds, plant nutrients, and factors affecting photosynthesis, respiration, and transpiration. Participants will experience plant components and their functions through the completion of hands-on activities.		
10-006-161	Career Development in Agriculture	1
Credits: 1 Lecture Hours: 18		
Student will develop individual leadership and employment qualities, in addition to exploring the agricultural industry and available careers.		
10-103-106	Beginning Microsoft Excel	1
Credits: 1 Lecture Hours: 18		
This course is an introduction to Microsoft Excel. Students will learn the basic features to produce basic worksheets and charts. Other topic areas covered include formatting, formulas, built-in functions used to design functional worksheets to solve business problems. Basic experience with Windows is assumed.		
10-801-136	English Composition 1	3
Credits: 3 Lecture Hours: 54		
This course is designed for learners to develop knowledge and skills in all aspects of the writing process.		

Credits: 3 Lecture Hours: 54

Students will develop skills in understanding the agribusiness industry and the operational responsibilities of a business. Studies will include the role of management, forecasting, budgeting and the marketing approach to customer satisfaction. Students will develop a business plan for an agricultural related business.

10-093-102 Grain Production & Management 3

Credits: 3 Lecture Hours: 36 Lab Hours: 36

Course will provide students with knowledge necessary to plan, produce, protect, harvest, and store commodity crops commonly produced in Wisconsin. Students will gain a basic understanding of how livestock production utilizes these commodities. The course will also introduce technology related to the advanced production of commodity crops. Students will gain experience with grain production and management through hands-on labs, field trips, and through real world in-the-field scenarios.

10-093-103 Forage Production & Management 3

Credits: 3 Lecture Hours: 36 Lab Hours: 36

Course will provide students with knowledge necessary to plan, produce, protect, harvest, and store forage crops commonly produced in Wisconsin for livestock production. Students will gain a basic understanding of how livestock production utilizes these forages. The course will also introduce technology related to the advanced production and management forage crops. Students will gain experience with forage production and management through hands-on labs, field trips, and through real world in-the-field scenarios.

10-093-104 Applications of GIS in Agriculture 2

Credits: 2 Lecture Hours: 18 Lab Hours: 36

Course will offer students the ability to build skills relating to Agronomic Geographic Information System (GIS) and on farm applications. Students will be able to advance their digital farming skills by learning how to adapt to different seasonal variables, monitor the health of individual crops, estimate yields from a given field, and maximize crop production. The course will have the opportunity for students to gain experience with new technology related to soil management, ag equipment, and unmanned aerial systems. Students will gain further experience through hands-on labs, field trips, and through real world in-the-field scenarios.

10-809-199 Psychology of Human Relations 3

Credits: 3 Lecture Hours: 54

Students explore the relationship between the general principles of psychology and our everyday lives. Students are given the opportunity to achieve a deepened sense of awareness of themselves and others. This understanding enables students to improve their relationship with others at work, in the family, and in society.

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Semester 05 (Tuition: \$1,960)

Course #	Course Title	Credits
10-006-117	Agribusiness Performance Standards	3

Credits: 3 Lecture Hours: 54 Lab Hours: 36

Course will provide students with ability to recognize and evaluate performance standards used in the agribusiness industry. Topics will include DOT regulations, legal descriptions, commodity marketing, contracts, financial statements and scorecards. Production standards will also be covered using industry benchmarks.

10-093-105 Nutrient Management & Precision Planning 3

Credits: 3 Lecture Hours: 36 Lab Hours: 36

Course will provide students with knowledge necessary to plan, apply, and manage plant nutrients while building an understanding of the regenerative principals of nutrient management. Students will gain a basic understanding of how Wisconsin's 590 standard is built and implemented for on-farm practices. The course will

