FARM & INDUSTRY

SHORT COURSE

College of Agricultural and Life Sciences
University of Wisconsin - Madison
True learning requires free and open debate, civil discourse, and tolerance of many different individuals and ideas. We are preparing students to live and work in a world that speaks with many voices and from many cultures. Tolerance is not only essential to learning, it is an essential to be learned. The University of Wisconsin-Madison is built upon these values and will act vigorously to defend them. We will maintain an environment conducive to teaching and learning that is free from intimidation for all. In its resolve to create this positive environment, the UW-Madison will ensure compliance with federal and state laws protecting against discrimination. In addition, the UW-Madison has adopted policies that both emphasize these existing protections and supplement them with protections against discrimination that are not available under federal or state law. Federal and state laws provide separate prohibitions against discrimination that is based on race, color, creed, religion, sex, national origin or ancestry, age or disability. State law additionally prohibits discrimination that is based on sexual orientation, arrest or conviction record, marital status, pregnancy, parental status, military status, or veteran status. The application of specific state prohibitions on discrimination may be influenced by an individual’s status as an employee or student. University policies create additional protections that prohibit harassment on the basis of cultural background and ethnicity. Inquiries concerning this policy may be directed to the appropriate campus admitting or employing unit or to the Equity and Diversity Resource Center, 179-A, Bascom Hall, (608) 263-2378, TTY (608) 263-2473.
The Mission of the University of Wisconsin Farm and Industry Short Course is:

To provide the best research-based, short-term education in agriculture for individuals planning careers in production agriculture or related agri-businesses.

Objectives

1. Teach research-based knowledge and skills needed to manage or work in agricultural production units and related agri-businesses.

2. Acquaint students with College, University, and State resources available to managers and workers in agriculture/agri-business professions.

3. Help students develop social and communication skills as well as life-long learning skills.

4. Assist students with career information, career selection, and provide internship and employment information and opportunities.

5. Provide students with on-campus housing and extra curricular activities that encourage integration with the wider campus community.

The changes occurring in agriculture today are rapid and extensive. New technologies are dramatically changing agricultural production, processing and marketing practices. Farms are getting larger, the number of people operating farms is smaller and the investment per farm is much higher. To survive, farms must be highly efficient operations.

Yet, with world populations increasing, a substantial portion of our population will continue to work in some phase of agriculture. Many of those previously needed to produce agricultural goods will be needed to provide services, equipment and supplies, and perform marketing functions.

As a result, successful careers in agriculture will increasingly require more sophisticated technical and management ability. Farmers and agri-business professionals alike will need to understand sound business principles, economic trends and be able to communicate effectively. They will also need to know basic care and handling of livestock, equipment and machinery, and principles of soil stewardship and crop husbandry.

More and more, those who choose careers in agriculture will require education beyond high school. Yet many people, especially those interested in operating their own farm, may not want to commit themselves to a four-year college degree program. A wise alternative is the Farm and Industry Short Course offered by the University of Wisconsin-Madison College of Agricultural and Life Sciences.
Short Course . . . Unique Preparation For Your Future

The Farm and Industry Short Course is a 17-week educational program uniquely designed to prepare men and women for exciting careers in agriculture. Students can choose from over 40 courses in the areas of soils, crops, poultry, dairy, meat animals and general livestock, agricultural engineering, ag economics, human relations and communications. Classes begin about mid-November and end in late March/early April, so they won’t interfere with the busiest months of the year in agriculture.

The program has several unique features:

- It is designed for people who want to build upon their high school agriculture experience, yet who are not ready to commit substantial time and energy in pursuing a four-year college degree.
- It is one of the few such programs in the country that combines cutting-edge knowledge in the field with practical, hands-on experience.
- Instituted in 1885, the program has a long and distinguished record. Thousands of Short Course graduates have gone into productive agricultural careers.
- Courses are taught by the same outstanding faculty who teach the regular degree programs in the College of Agricultural and Life Sciences.
- Students need not specialize or major in any particular area. You may choose those courses that are of greatest interest and value to you. However, five specialty programs are offered.
- Upon graduating, students may transfer up to 15 Short Course credits (provided they earned a grade of B or better in those classes) toward a four-year degree in the College of Agricultural and Life Sciences.
- Short Course students can use the same facilities as students pursuing the regular degree programs in the College. Special Short Course dormitories are available on campus to house both men and women.
- Internships are available in a wide variety of agri-business firms, farms, and government agencies. Students can earn 2 credits toward a 2nd year certificate.

Who Is Eligible?

Admission into the FISC program at UW-Madison requires high school graduation or GED and a high school class rank in the upper 80%. Students ranking in the lower 20% of their high school class may be admitted on a probationary status if they submit a personal letter indicating why they feel they will be successful in the Short Course program and if they have the strong support of their high school agriculture teacher and/or counselor. ACT scores will also be considered and returning adult students will also receive special consideration. Students admitted on probation that fail to earn a 2.00 GPA on their first term will be dropped from the program at the end of that term.

General Certificate Program Requirements

For those students wishing to pursue a general course of study in the Farm and Industry Short Course, the opportunity is virtually unlimited. Some 16 to 22 courses are offered each of the three regular terms. You may choose four to six courses each term. Faculty advisers will be on hand at orientation to counsel students seeking advice.

Students will also pursue one course each of the one-week Interim periods, spending 20-25 hours of study in a specialized area.

With two exceptions, you may choose courses according to your personal interests. A basic mathematics comprehension test and English composition test are required of all students enrolling in Short Course for the first time. Those who do not attain satisfactory performance on these examinations must take the appropriate English and math courses. These required courses must be passed to allow a student to graduate from the program.

Students may earn a one-year or two-year certificate. The one-year certificate requires 20 credits, while the two-year certificate requires 40 credits. To graduate with either a one- or two-year certificate, a student must maintain a 2.0 cumulative GPA or higher. Students with extensive agricultural high school or technical school training may ommit certain introductory classes if they pass a screening test. If students test out of such classes, they may apply the class credits toward a certificate.
Specialty Programs

The Farm and Industry Short Course offers the following six specialty study programs. Students may complete one of these during a year of coursework.

Farm Service & Supply Specialty
(20 Credits Minimum)

**Required Courses**
- Weed Identification and Management (2 cr.)
- Farm Insects (2 cr.)
- Plant Diseases (2 cr.)
- Intro. to Decision Making in a Market Economy (2 cr.)
- Introductory Soils (2 cr.)
- Convocation (1)

**Choose Three Courses of Those Below:**
- Rural Economic Issues (2 cr.)
- Community Leadership (1 cr.)
- Trends and Issues in Rural Life (1 cr.)
- Agri-business Communications (2 cr.)
- Elements of Public Speaking (1 cr.)

**Complete 1 of 2 Options**

- Plant Option (complete all)
  - Grain Crops Production & Management (2 cr.)
  - Soil and Water Resource Management (2 cr.)
  - Forage Crops (2 cr.) or Pasture Management (1 cr.)

- Animal Option (choose 6 Credits)
  - Feeding Dairy Cattle (2 cr.) or Feeding Poultry & Swine (1 cr.)
  - Genetic Improvement of Dairy Cattle (2 cr.) or Beef & Swine Breeding (1 cr.)
  - Sheep Management & Production (2 cr.)
  - Beef Management & Production (2 cr.)
  - Dairy Herd Management (2 cr.)
  - Swine Management & Production (2 cr.)

Crop and Soil Management Specialty
(20 Credits Minimum)

**Required Courses**
- Grain Crops Production & Management (2 cr.) or Forage Crops (2 cr.)
- Introductory Soils (2 cr.)
- Soil & Water Resource Management (2 cr.)
- Weed Identification and Management (2 cr.)
- Plant Diseases (2 cr.)
- Farm Insects (2 cr.)
- Forage Crops (2 cr.) or Pasture Management (2 cr.)
- Intro. to Decision Making in a Market Economy (2 cr.)
- Grain Marketing (1 cr.)
- Rural Economic Issues (2 cr.) or both Rural Trends & Issues (1 cr.) and Community Leadership (1 cr.)
- Convocation (1 cr.)

**Grass-Based Dairying Specialty**
(24 credits required over the 17-week period.)
- Decision Making in a Market Economy (2 cr.)
- Forage Crops (2 cr.)
- Reproduction of Farm Animals (2 cr.)
- Using Computers to Assist in Decision-Making (1 cr.)
- Pasture Management (1 cr.)
- Dairy Cattle Health (1 cr.)
- Agricultural Safety and Health (1 cr.)
- Rural Economic Issues (2 cr.)
- Feeding Dairy Cattle/Ruminant Nutrition (2 cr.)
- Soil and Water Resource Management (2 cr.)
- Grass-Based Dairy Seminar (3 cr.)
- Elements of Public Speaking (1 cr.)
- Convocation (1 cr.)

**Recommended Electives (Choose 2)**
- Measuring Profitability (1 cr.)
- Genetic Improvement of Dairy Cattle (2 cr.)
- Advanced Reproduction (1 cr.)
- Grain Marketing (1 cr.)
- Trends and Issues in Rural Life (1 cr.)
Honors Certificate Option

Students may elect to take some Short Course classes for Honors credit each term. Students completing a total of at least 10 credits of Honors course work and who earn at least a 3.25 GPA on all credits will receive a special Honors Program designation on their transcript. Honors credit courses usually involve more work and some individualized consultations with professors. Courses that are available for Honors credit vary from term to term, and most instructors will announce this option the first day of class.

Academic Requirements

Students in the Farm and Industry Short Course must maintain satisfactory progress in their course work. Short Course uses the same grading as other courses on campus: A, AB, B, BC, C, D, F. Grade point averages are figured on a four-point scale: A = 4 points, B = 3 points, C = 2 points, D = 1 point, F = 0.

The Short Course Program rewards academic excellence each term and at graduation. Full-time students with a 3.25 term GPA and no F’s are placed on the Dean’s Honor List. Students eligible for a graduation certificate who have earned a cumulative GPA of 3.25 or higher will be granted the honor of Graduate with Distinction. Students with a cumulative GPA of 3.75 receive Graduate with Highest Distinction honors.

Following are scholastic actions for Farm and Industry Short Course based on a 4.0 scale:

1. Warning—A student with no previous action and with a cumulative GPA of 2.0 or above who fails a course in a given term or who has a term GPA of less than 2.0 even though the cumulative GPA is greater than or equal to 2.0.

2. Probation—A student will be placed on probation if his/ her cumulative GPA falls below 2.0.

3. Dropped from FISC—A student on probation or admitted on probation who fails to attain a 2.0 term GPA will be dropped for one term. A student not on probation who earns less than a 1.0 GPA in any single term will also be dropped. A student may return after being away the required length of time. If the student fails to earn a term GPA of 2.0 or above and is dropped again, the student will not be permitted to re-enroll for two consecutive terms.

4. Removed from Probation—Students will automatically be removed from probation after the term in which their cumulative GPA reaches 2.0 or above. A
student will thus remain on probation, regardless of an above 2.0 term GPA, until his/her cumulative GPA reaches 2.0 or above.

5. Incomplete Students who are graded I for incomplete work will have until the end of the next term to complete the course work. If the work is not completed, the I grade will become an F. For scholastic action purposes, all I grades will be calculated as an F grade for a given term GPA.

6. Course Drops: A course drop will be permitted up to the last class day of the third week of the term (first week of 3-week term). A late drop will result in an F grade. Late drops will be at the discretion of the Dean and Director.

7. Appeals: A student in dropped status with unusual and substantiated circumstances may appeal to the Scholastic Policies Committee for readmission. Appeals will be received on the first day of each term.

On-Campus Housing
Two well-equipped residence halls are available for Short Course students. The halls, which are operated by the College, provide a comfortable home for students while on campus. They are located on the scenic shores of Lake Mendota, conveniently close to Short Course classrooms on the College of Agricultural and Life Sciences campus.

Each room has cable TV, telephones and data hook-ups. Students are expected to clean and maintain their own rooms. One floor is reserved for women. If the demand for space exceeds capacity, students desiring dormitory residence will be accepted in the order their applications are received. Each dorm room houses three persons. Students desiring a double room will be permitted this choice, at an additional cost, when space permits. Living arrangements in the Short Course dormitories, as in other dormitories, are governed by Board of Regents rules and state statutes. An upperclassman housefellow will reside on each floor to assist students with personal or academic questions, and to enforce Regent and state policies. A $100 deposit is required to reserve a dorm room.

Food Service
Students residing in the Short Course Dorms are required to participate in a meal plan operated by the Residence Halls. Two or three different cafeterias are available within a 5-minute walk of Humphrey and Jorns Halls, and carryout food service is available as well. One cafeteria remains open until 11:30 p.m. each evening for late night snacks.

A basic membership fee for the food service program will be collected as part of your rent for each week that the food service is in operation (approximately $34/week). The typical student will spend an additional $300-$400 on food for the 17 weeks, depending on their appetite and how many meals they consume each week. A special food account is established and students will access their choice account by using their student I.D. card. Any money not used at the conclusion of Short Course is refundable, and students can add funds to their account as needed.

Reasonable Costs
2001-2002 costs for on-campus students for 17 weeks:

<table>
<thead>
<tr>
<th>State of residence</th>
<th>Wisconsin</th>
<th>Minnesota</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fees &amp; Tuition</strong></td>
<td>$1,716</td>
<td>$2,241</td>
<td>$6,666</td>
</tr>
<tr>
<td><strong>Room and board</strong></td>
<td>$1,850</td>
<td>$1,850</td>
<td>$1,850</td>
</tr>
<tr>
<td><strong>Books &amp; Incidentals</strong></td>
<td>$300</td>
<td>$300</td>
<td>$300</td>
</tr>
</tbody>
</table>

*Subject to change from year to year.
**The $1,850 price assumes three students per room.

Costs for each term are proportionate to the total. Room rent and tuition are paid in advance on a per-term basis. Room rates are subject to change.
A Variety of Student Activities

The Farm and Industry Short Course provides many opportunities for physical activities and social recreation. Supervised basketball, volleyball, bowling and swimming (instructional and recreational) are available. Short Course students may use any campus sports facility including weight-lifting, racquetball, etc. Several ski trips are planned each year as well.

College of Agricultural and Life Sciences clubs, such as Saddle and Sirloin, Collegiate FFA Club, Poultry Club, Badger Dairy Club, and Agricultural Student Council, are open to Short Course students. The Short Course Dairy Judging Team is open to second-year students who have taken the Dairy Cattle Evaluation course the previous year. Team tryouts are held at the State Fair in August. The team competes at the World Dairy Expo and other national contests. Participation in the Little International Horse Show and Badger Livestock show are always a highlight for Short Course students.

All University Libraries are open to Short Course students. Lectures, plays, concerts, films and other entertainment abound in Madison. Church youth groups always welcome Short Course students. Students can also participate in Short Course musical programs and other campus music activities. Interested students can gain experience by helping to prepare The Little Badger, a Short Course yearbook with photos of students and faculty and coverage of Short Course activities.

Financial Aid for Short Course

Because the Farm and Industry Short Course is shorter than a regular academic year and doesn’t lead to an undergraduate degree, only a relatively small amount of federal financial aid is available through the Stafford Loan Program. Short Course students may borrow $875 for the first year and $1,175 for the second year of the course. No grants or work-study are available to Short Course students.

To get the forms necessary to apply for a Stafford Loan, contact the Office of Student Financial Services, 432 N. Murray St., Madison, WI 53706, or the Short Course office, or go online at www.finaid.wisc.edu/. To apply for a loan you must fill out a Free Application for Federal Student Aid and send it to the federal processor in the envelope provided. You also must send a Financial Aid Application and signed copies of the parents’ and student’s 2001 federal income tax returns to the Office of Student Financial Services. Please do not submit your own loan applications. If you are found to be eligible for a loan an application will be sent to you.

It may take up to three months to apply for and receive a Stafford Loan. Stay in touch with the Financial Aid office until you receive your Stafford Loan offer. If you have questions, call Vera Abing at the Office of Student Financial Services at (608) 262-3060 (identify yourself as a Short Course student).

Veterans enrolled as full-time students with at least 18 clock hours (more if enrolled in lab courses) and are enrolled in a specialty program which they plan to finish in one year are eligible for Veterans Benefits. Consult the Director of Short Course for details.

There are more than 80 scholarships available to Short Course students. More than $70,000 was awarded for the 2001-2002 academic year. These scholarships are offered by foundations, trust funds, organizations and private firms. For example, each year the Wisconsin Rural Opportunities Foundation provides 30 scholarships worth $550 each. Other examples include the Freddy Gage Jr. Memorial Scholarship, Farm Credit Service Scholarships, the Gall Scholarship, the East Central/Select Sires Scholarship and the Cooperative Resources International Scholarship.

Any student eligible for Short Course may apply for a scholarship by providing the appropriate information on the Short Course admission application stapled in the center of this booklet. Applications and accompanying information for university-administered scholarships must reach the Short Course director by April 1.
First Term —  6 Weeks

- Decision Making in a Market Economy
- Farm Machinery
- Forage Crops
- Reproduction of Farm Animals
- Dairy Herd Management
- Meat Animal Evaluation, Production & Marketing
- Farm and Industry Computations
- Introductory Soil Science
- Livestock Housing
- Agri-business Communications
- Welding
- Grass-based Dairy Seminar
- Convocation

Interim —  1 Week Courses

- Advanced Reproduction
- Advanced Dairy Nutrition
- Using Computers to Assist in Decision-Making
- Practicum in Animal Skills
- Precision Agriculture
- Wisconsin School for Beginning Market Gardeners
- Pasture Management
- Crop Scouting School
- Livestock Marketing
- Milking Systems and Design

Second Term —  3 Weeks

- Farm Power
- Farm Law
- Wildlife Management
- Dairy Cattle Health
- Advanced Reproduction
- Dairy Cattle Evaluation
- Community Leadership
- Agricultural Safety and Health
- Grain Marketing
- Sheep Management
- Beef & Swine Breeding
- Poultry & Swine Feeding
- Dairy Marketing & Cooperatives
- Trends & Issues in Rural Life
- English Composition
- Agricultural Energy Management and Wiring
- Grass-based Dairy Seminar

Third Term —  6 Weeks

- Dairy Product Processing & Quality
- Measuring Profitability
- Genetic Improvement of Dairy Cattle
- Weed Identification & Management
- Rural Economic Issues
- Plant Diseases
- Beef Cattle Management & Production
- Feeding Dairy Cattle/ Ruminant Nutrition
- Soil and Water Resource Management
- Farm Insects
- Swine Management & Production
- Elements of Speaking
- Grain Crops Production & Management
- Grass-based Dairy Seminar
- Welding
- Microbiology

Note: The above course offerings are contingent upon a sufficient level of funding provided by the state Legislature and GovernorOs office.
Courses Offered
The following list summarizes all courses offered for Short Course credit.

Agricultural Engineering

Agricultural Safety and Health. 1cr. Provides an overview of the causes and prevention of common farm injuries and illnesses. Emphasizes control of hazards as part of overall farm safety management. Covers types of fatal and non-fatal injuries, tractor and machinery-related injuries and operating practices, hazards to children, animal-related injuries, confined spaces, respiratory hazards, chemical exposure, personal protective equipment, OSHA, DOL, and EPA worker-related regulations, causes and prevention of injuries including inspections and hazard control, and safety management strategies and activities. 2nd term. Purschwitz.

Agricultural Energy Management and Wiring. 2 cr. Use of electric and electronic equipment on the farm. Includes introduction to electrical distribution and farm wiring systems, National Electric Code for agricultural buildings, choosing electric motors, wiring and electrical safety, special needs for electronic equipment, working with an electrical contractor. 2nd Term. Reinemann.

Farm Machinery. 3 cr. Principles of operation, construction, maintenance, and management of machines for tillage, planting, and harvesting agricultural crops. Laboratory sessions include working with machine components and actual field machines. Previous experience with farm machinery is not required. 1st Term. Schuler/Nelson.

Farm Power. 2 cr. Principles of operation, construction, and maintenance of agricultural tractors and engine power systems. Covers two- and four-stroke diesel and spark-ignition engines, lubrication, power measurement, electrical systems, hydraulics, tires and traction. Labs focus on understanding the tractor and engine but do not include tractor or engine overhauls. Course assume no previous experience with tractors or engines. 2nd Term. Nelson.

Livestock Housing. 3 cr. Covers planning of dairy, beef and swine livestock housing for proper environmental control, manure and feed handling, and labor and capital efficiency. Topics include building materials, heat loss, silo sizing, cost estimating, computer-aided design, and ventilation and manure storage. Students will develop a plan for their own farmstead. This course is useful for those who plan to construct livestock buildings within the next 5-15 years, including those who want to work in the farm building trade. 1st Term. Holmes/Kammel.

Welding. 2 cr. Practical experience in the welding of steel, cast iron, aluminum, stainless, etc. Manual arc, wire feed, heliarc, plasma, gas welding and cutting, and other processes. Weld inspection and testing. 1st and 3rd Terms. Taught at Madison Area Technical College.

Communications & Leadership

Community Leadership. 1 cr. Discussion and practice in developing and expanding desirable qualities of leadership. 2nd Term. Douglah.

Elements of Public Speaking. 1 cr. Practice in organizing and presenting ideas and improvement of individual speech habits. 3rd Term. Jensen.

English Composition. 1 cr. Basic composition class required for students needing English writing skills. 2nd Term.

Agri-business Communications. 2 cr. Improving writing skills for personal and mass media. Understanding and using personal and mass media channels to communicate with others. 1st Term.

Trends and Issues in Rural Life. 1 cr. Introduction to social trends which produce changes in rural population, agriculture, natural resources, and rural communities, and the impact of these changes on rural life. Helps place agriculture in the larger social context. 2nd Term. Nowak.
Crops & Soils

Introductory Soils. 2 cr. Soil formation; important physical and chemical properties; soil moisture; introduction to soil fertility; soil mapping and classification. Pre-requisite for Soil and Water Conservation and Advanced Soil Management. Students will be offered free soil tests for up to five samples. 1st Term. Wolkowski/Madison.

Farm Insects. 2 cr. Recognizing and controlling the most common insects attacking our farm crops, animals and buildings. 3rd Term. Pellitteri.

Forage Crops. 2 cr. Identification and characteristics of forage legumes and grasses; management and culture of legumes, grasses and grass-legume mixtures; weed, insect, and forage disease control; hay and haymaking; legume, grass, and corn silage; forage varieties and their uses; forage quality and its importance in feeding livestock; pasture types and improvement; forage production trends. 1st Term. Kojis.

Grain Crops Production & Management. 2 cr. Covers corn, soybeans, and alternative crops. Current production recommendations: hybrid and variety selection, seedbed preparation, pest control, fertility management, harvest, storage, marketing, crop ecology, information resources, seed production and certification. Students interested in other crops (sweet corn, peas, sunflowers, etc.) and those with a specific area of interest, such as seed production, will have independent study opportunity. 3rd Term. Lauer.

Pasture Management. 1 cr. The pasture management course will cover pasture establishment, pasture improvement, and pasture plant growth. It will discuss in depth pasture layout, fencing, and water systems. The course will also cover pasture utilization by the animal including animal behavior on pasture, animal nutrient needs vs. pasture growth, and supplemental feeding. Interim. Undersander/Cates.

Plant Diseases. 2 cr. How to diagnose and control common plant diseases of economic plants in Wisconsin. 3rd Term. Hudelson.

Weed Identification and Management. 2 cr. Sound weed management requires an ability to identify common weed species. Live plants, slides and weed mounts are used in lectures and labs to teach weed identification. The course examines weed control principles and weed control recommendations in corn, alfalfa, soybeans, small grains and pastures. Students are given the opportunity to develop weed management programs for various cropping systems. Also covers safe use of herbicides, sprayer calibration, herbicide selection, transgenic crops, herbicide resistant weeds and more topics. 3rd Term. Doll.


Dairy

Dairy Cattle Evaluation. 1 cr. Covers dairy cattle judging and type classification programs, and provides a working knowledge of mating systems and their use in herd improvement. 2nd Term. Halbach.
Dairy Cattle Health. 1 cr. Cattle disease problems; how the animal body works; digestive disorders, noninfectious diseases, principles of infection and sanitation; state regulations against disease. 2nd Term. Kleppe.

Dairy Herd Management. 2 cr. How to care for your herd to increase production and profits. Use of business, feeding and herd management tools in dairy farm operation. Case studies of individual farms used for analysis and planning. 1st Term. Palmer.

Dairy Product Processing and Quality. 2 cr. Information about milk composition, milk products and production practices that make it easier to produce quality milk. 3rd Term. Blattner.


Genetic Improvement of Dairy Cattle. 2 cr. Herd improvement programs and records; use of breed association programs; genetic evaluation of cows and bulls based on individual performance, ancestors, and progeny. Economic benefits of genetic improvement and economic importance of milk yield, milk composition, type and health. 3rd Term. Weigel.

Farm Management & Economics

Decision Making in a Market Economy. 2 cr. An introduction to the working of a market economy and some decision making concepts. Students will learn about the role of prices and preferences in making production and consumption decisions. Students will also become acquainted with the U. S. agricultural system and various economic policies that may be employed by government. Taxation, regulation, trade, and employment policies are some government programs that will be considered in the course. 1st Term.

Using Computers to Assist Decision Making. 1 cr. Reviews DOS and introduces several farm management software programs used by UW-Extension, including Agricultural Accounting and Information Management System (for daily financial records), Agricultural Budget Calculation software (for enterprise budgets), and Finpack (for looking at changes in a farm business). Provides overview of commercial software that can be used in farm management. Spreadsheet and tax preparation programs will be highlighted. One-week course, offered twice during Interim Week 1 and Week 2. Brannstrom.

Livestock Marketing. 1 cr. This class will analyze various methods of marketing livestock, how prices are determined, the interaction of supply and demand and techniques of market management. Industry guests will be utilized in assessing the roles of producers, livestock markets, packers, retailers, food service and the public sector in the marketing of meat and livestock. Interim. Luby.

Measuring Profitability. 1 cr. Students learn to answer questions about the profitability of their whole farm business, of enterprises within their business, and of proposed changes in their business. They will learn how to adjust cash incomes and expenses by non-cash incomes and expenses to obtain the standard measurement of profit. This value will then be used as the basis for calculating costs per unit of output (hundredweight of milk, bushel of corn, etc.) and other ratios and absolute measures. Some of the other topics introduced include: opportunity costs, use of limited resources, input substitution, partial and enterprise budgeting, cash flow and net worth statements, and evaluation of risk. 3rd Term. Brannstrom.

Dairy Marketing and Cooperatives. 1 cr. This course focuses on the various factors that impact farm level milk prices. Specific topics include: national and regional milk production, consumption of milk and dairy products, international dairy trade, pricing milk...
for manufacturing use, federal dairy price support program, federal milk marketing orders, state milk marketing orders, role of dairy cooperatives in milk pricing and marketing, multiple component pricing, the use of dairy futures and options, and current dairy policy issues. 2nd Term. Cropp.

**Grain Marketing.** 1 cr. This course focuses on the farm and its marketing environment and provides an overview of the economics of grain and oilseed markets. The course concentrates on developing skills for effective grain marketing analysis and strategies. It examines forward contracting, hedging on futures markets, delayed pricing and options trading. Also examines current farm policies and their impact on grain markets. 2nd Term. Craven.

**Meat, Meat Animals & Poultry**

**Beef and Swine Breeding.** 1 cr. Fundamentals of medallion genetics in beef cattle and swine. Also will cover the quantitative inheritance of performance traits, selection and selection programs in these two species. 2nd Term. Craven.

**Beef Cattle Management & Production.** 2 cr. Application of genetics, reproductive physiology and nutrition to the management of cow-calf and feedlot enterprises. Some cattle management techniques will be practiced in laboratory periods. 3rd Term. Craven.

**Meat Animal Evaluation, Products & Marketing.** 2 cr. This course demonstrates how meat animals within a species differ in value, grade and yield. Will also discuss price determination and marketing systems for each species. The students will receive hands-on experience in evaluating, slaughtering and cutting beef and pork. Lamb processing and manufacturing of processed meat items will be demonstrated. 1st Term. Russell.

**Poultry & Swine Feeding.** 1 cr. Properties of feedstuffs, including variations in quality and nutritive value. Nutritional requirements of swine and poultry with emphasis on those nutrients most likely to be deficient. Efficiency of conversion of feed to product. Problems and calculations related to use of supplements to supply protein, minerals, vitamins and feed additives. 2nd Term. Craven.
molds and viruses. Lab sessions introduce the basic techniques of microbiology for observation, growth and identification of microorganisms. 3rd term. Lindquist.

**Farm & Industry Computations.** 2 cr. A remedial math course for farmers. 1st Term.

**Grass-Based Dairying Seminar.** 1 cr./term. Utilizes farmers and faculty to discuss technical and business aspects related to grass-based dairy farm start-up and management. Terms 1, 2, & 3. Cates.

**Short Course Internship.** 2 cr. Students may enroll in an internship experience course between their first and second year of the Short Course program. A variety of work/learn experiences can be arranged through the CALS Internships Office. Students can arrange internships through campus interviews or on their own. Experience may include agri-businesses, government agencies, farms, or other field experiences. Students may apply internship credits toward their second year certificate in the Short Course program.

**Sheep Management & Production.** 2 cr. Subjects discussed include breeds, feeding, reproduction, health and marketing. Experience in lambing ewes, docking, castrating, drenching and other management skills is provided. 2nd Term. Gottfredson.

**Swine Management & Production.** 2 cr. Application of modern techniques of swine management for the improvement of overall production efficiency. Includes the application of principles in nutrition, reproductive physiology, genetic selection, animal management, ventilation and waste management in confinement housing, housing systems, herd health programs and economic decision-making. 3rd Term. Crenshaw.

**Miscellaneous**

**Convocation.** 1 cr. General orientation to campus, the Ag College and special selected topics required for all first-year students. 1st Term. Daluge.

**Microbiology.** 1 cr. Biology of microorganisms and their involvement in agriculture, food science, infectious disease and technology. Includes an introduction to cellular biology and discussions of bacteria, ACTIVITY AND LEADERSHIP: The Wisconsin Agricultural and Life Sciences Alumni Association presented five Short Course students with Activity and Leadership Awards at the 2001 graduation ceremony. Robert Daentl, President of the Short Course Alumni Board, presented the awards. From left: Andrea Brossard, Beaver Dam; Stephanie Cowling, Neenah; Tanya Merrill, Sun Prairie. Back row: Robert Daentl; Brady McCaulty, Viola; Chris Pollack, Ripon; Rick Daluge, Short Course Director; Elton Aberle, Dean, College of Agricultural and Life Sciences.
Meet the Director

Dr. Richard Daluge has been director of the Farm and Industry Short Course since 1983. He also serves as the Secretary-Treasurer of the Wisconsin Agricultural and Life Sciences Alumni Association and is an Assistant Dean of the College of Agricultural and Life Sciences.

Daluge is originally from Janesville, Wis., and grew up on a Holstein dairy farm. He remains active in the family farm corporation and with registered Holsteins. He has a bachelor’s degree in agricultural education, a master’s in extension education, and a doctorate in adult education—all from the University of Wisconsin-Madison.

Daluge stresses the importance of faculty-student interaction in the Short Course and personally advises students. He encourages prospective students and parents to call to arrange a campus visit, or to attend the Short Course Preview Days held annually in December and February.

Orientation and Registration Day

All first-year Farm and Industry Short Course students and their parents are encouraged to attend the Orientation Day program. The program will take place ______________________. The day’s agenda will include:

- Math placement test
- Dorm orientation and meet housefellows
- Photo ID card pictures
- Selection of 1st term courses
- Parent orientation (during placement tests)

Students attending the Registration and Orientation Day will have priority in registration for courses.
How to Apply
If the Farm and Industry Short Course offers what you want in training for farming or related work, complete and return the application stapled in the center of this booklet. (If the application is missing, call us or visit our web site.) Remember to send a copy of your high school transcript. If you want to reserve a dormitory room, also enclose a deposit of $100 payable to: Short Course Dormitories.

For More Information:
R.H. Daluge,
Director, Farm and Industry Short Course
College of Agricultural and Life Sciences
116 Agriculture Hall
University of Wisconsin-Madison
1450 Linden Dr.
Madison, WI 53706

phone: (608) 263-3918
fax: (608) 265-5905
email: fisc@cal alignment_error

Visit us on the web:
www.cals.wisc.edu/students/fisc.html

For Students with Disabilities
The McBurney Disability Resource Center is the campus resource for students and guests with physical disabilities. Program goals include providing academic, physical, electronic and attitudinal access to students with disabilities in an environment emphasizing variations, not limitations. McBurney staff members work closely with students, staff and faculty to develop disability-related service recommendation plans including, but not limited to, alternative testing, note-takers, interpreters, and Brailled or taped course materials. Additional services include disability-related counseling, self-advocacy training and promotion of disability issues and accommodations. The center also provides disability-related training, information and referral for university staff and faculty and serves as a clearinghouse for resources on disability issues.

Students seeking accommodations should request assistance from the center as soon as possible. Faculty and students may request support from McBurney staff in evaluating requests and providing accommodations. Verification of need is based on disability documentation provided by the student. Requests should be made in a timely manner, preferably before or at the beginning of the program. Students who need reading materials in alternative format (taped recorded, Brailled, etc.) and students who use interpreters should request services at least four weeks before classes begin to ensure timely service provision. Students feeling they have experienced discrimination or denial of a reasonable accommodation may file an appeal. Information on the appeal process can be found at www.wisc.edu/adac/.

2001 SHORT COURSE SCHOLARSHIP RECIPIENTS
What Past Students Say About the Farm & Industry Short Course

“It is an excellent program; I don’t regret attending. I would do it again if I got the chance.”

“A good program to take if you’re not sure about four years of college.”

“What you put into the program, is what you get out of it. It has been a great experience for me. I plan to attend next fall.”

“It was a great experience and I learned a lot of information that will come in helpful on my farm in the future.”

“This is a very good and unique program. There can’t be a better program than this.”

“It is a very helpful program. It helps us understand new ways of farming and the technologies that are here and that are coming.”

“The Short Course is not only a way to get educated about agriculture, you also get educated about life.”

“I think it is a good program; it gives you information to be better, more efficient farmers and the classes are presented in a good way in which you don’t get confused, but you learn a lot.”

“It was a great experience—a nice bridge from high school to college. I couldn’t ask for better.”