

www.aces.illinois.edu/exploraces

EXPLORACES

MARCH 13-14 2009



COLLEGE OF AGRICULTURAL, CONSUMER AND ENVIRONMENTAL SCIENCES



Dear Adventurers,

Welcome to ExplorACES 2009! We are excited you are here to discover all that awaits you at the College of Agricultural, Consumer and Environmental Sciences.

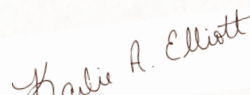
We have over 100 interactive exhibits for you to explore! As you journey through ExplorACES, enjoy a first-hand look at the diverse opportunities and possibilities available to you.

Unmask the truth about college courses, student organizations, housing and scholarships while at ExplorACES. You never know what treasures await you.

Please refer to this guidebook for information on tours, courses and special presentations, and if you have questions don't hesitate to ask one of the exhibitors.

We hope you enjoy your adventure here at ExplorACES and thank you for joining us!


Mitch Heisler


Karlie Elliott

2009 ExplorACES co-chairs

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WHY CHOOSE ACES?

Small community inside a large university

The College of ACES is home to approximately 2,250 undergraduate students. The size of each department varies from 100-600 students.

Outstanding scholarships

Each year, ACES awards \$1.1 million in need and merit-based scholarships.

Career building resources

ACES Career Services helps students find internships and land job interviews. Résumé writing workshops and interview practice sessions give ACES students a competitive edge.

Academic resources

The ACES Library features computer labs, group study rooms and plenty of resources for research projects.

Undergraduate research opportunities

The ACES Research Scholarship Program encourages students to conduct research in a broad range of disciplines solving practical problems. Check out the exhibits throughout ExplorACES.

Leadership development

ACES Student Council and more than two dozen student organizations offer ample opportunities for students to build leadership skills. Students can earn a leadership certificate and participate in free leadership programs through the Illinois Leadership Center.

Outstanding faculty

Award winning faculty in research and education provide the foundation for an excellent education. 95% of classes in the College of ACES are taught by faculty members or academic professionals.

Accessible administration

Through the "Lunch with the Deans" program, students have the opportunity to get to know the college administration. Many of the Associate Deans also serve as advisors for student organizations.



Accessibility

All ExplorACES exhibits are accessible, but visitors should note that the floor in the Stock Pavilion is covered with wood shavings. If you need a reasonable accommodation to take part in ExplorACES activities, please call 217-244-4540 by March 5.

Parking

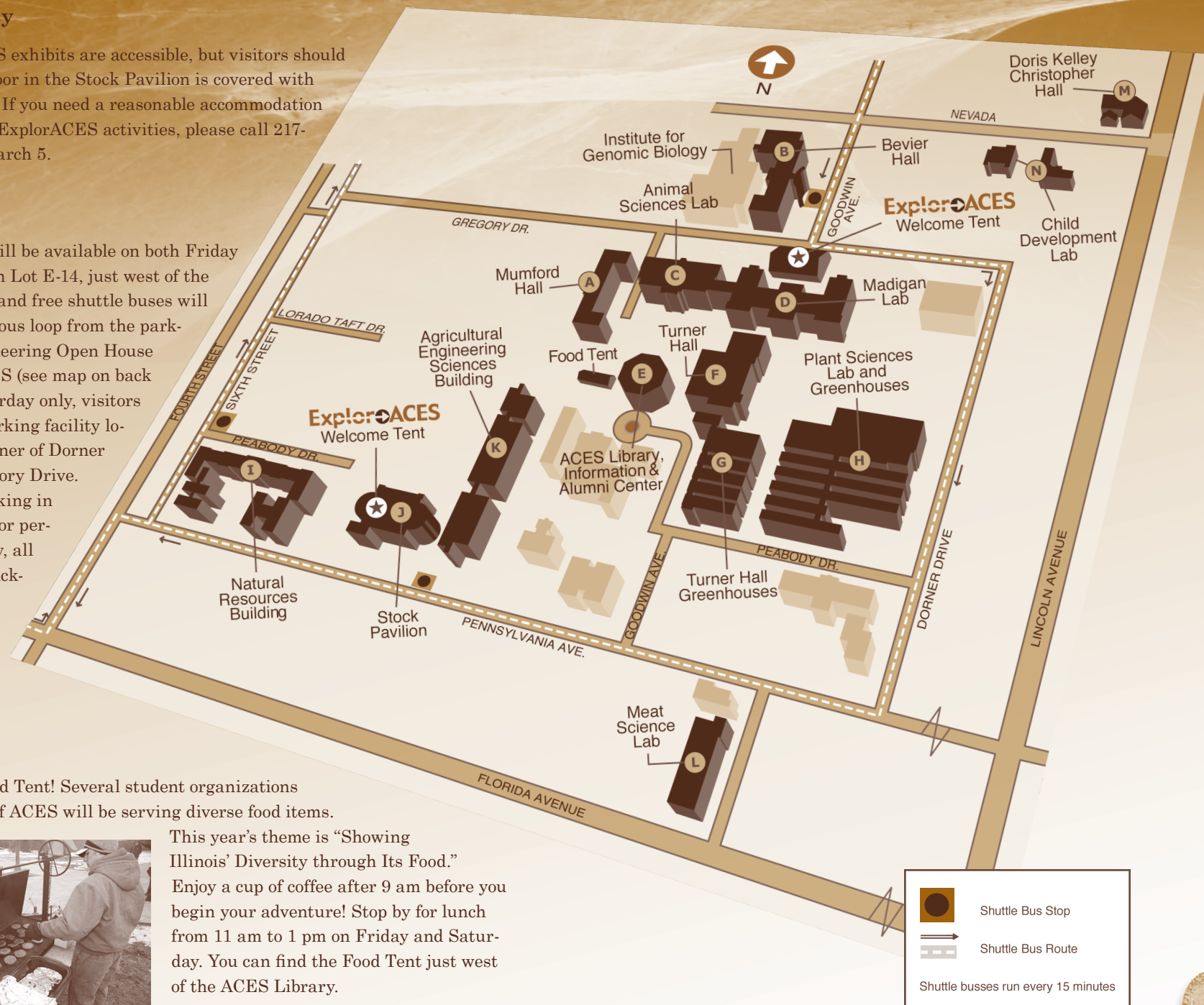
Free parking will be available on both Friday and Saturday in Lot E-14, just west of the Assembly Hall and free shuttle buses will make a continuous loop from the parking lot to Engineering Open House and ExplorACES (see map on back cover). On Saturday only, visitors may use the parking facility located at the corner of Dorner Drive and Gregory Drive. (On Friday parking in that facility is for permit holders only, all others will be ticketed or towed).

Hungry?

Stop by the Food Tent! Several student organizations in the College of ACES will be serving diverse food items.



This year's theme is "Showing Illinois' Diversity through Its Food." Enjoy a cup of coffee after 9 am before you begin your adventure! Stop by for lunch from 11 am to 1 pm on Friday and Saturday. You can find the Food Tent just west of the ACES Library.



	Shuttle Bus Stop
	Shuttle Bus Route
Shuttle busses run every 15 minutes	



WELCOME TENTS

North of Madigan Lab and South of the Stock Pavilion

If you are visiting ExplorACES with a class or other group, we encourage you to use the Welcome Tents as your gathering place when it's time to meet up for the trip home.

Information Booth

Pick up your free tote bag and ExplorACES program before you embark on your adventure! Guides will be available to answer your questions and point you in the right direction.

ACES Campus Tours

Explore the ACES Campus on a walking tour led by the members of the Student Advancement Committee. Tours will depart from the Welcome Tents as requested and last about 30 minutes.

HUNGRY?

Food Tent hours Friday and Saturday:

After 9 am: coffee served

11 am–1 pm: lunch

Be sure to visit the food tent, just west of the ACES Library, open from 11 am to 1 pm on Friday and Saturday for lunch! ACES student clubs will be serving food entrees from across the world to represent the diversity within the College of ACES. Student organizations from across campus will provide entertainment as you eat. Don't miss out on this opportunity to chat with current students, professors and alumni, all while enjoying a delicious meal! Stop by after 9 am both mornings and grab a cup of coffee before you adventure around ACES!

LOOKING FOR A SPECIFIC DEPARTMENT?

Looking for...

Find it here...

Plant Biology & Crop Sciences

Turner Hall, Plant Sciences Lab & Greenhouses

Animal Sciences & Pre-Vet

Animal Sciences Lab, Stock Pavilion

Agribusiness & Economics

ACES Library/Mumford Hall

Agricultural Engineering & Mechanization

Agricultural Engineering Sciences Building,
Engineering Open House (North End of U of I Campus)

Food Science, Human Nutrition,
Dietetics & Hospitality
Management

Bevier Hall, Agricultural Engineering Sciences
Building

Families, Communities &
Child Development

Bevier Hall

Agricultural/Environmental
Education & Communication

ACES Library, Bevier Hall

Natural Resources &
Environmental Science

Plant Science Lab & Greenhouses



EXPRESSING ILLINOIS' DIVERSITY THROUGH ITS FOOD

The University of Illinois has always been a foremost leader in making sure that our campus represents the diversity of the nation. Illinois believes that having a diverse campus and learning community will lead to enhancing education. A cultural campus will allow students to be globally aware and able to adapt to cultures other than their own. The theme of the Food Tent is "Expressing Illinois' Diversity through its Food." The goal of the Food Tent is to represent several different ethnic foods from around the world. We hope everyone is willing to experience the food that the world has to offer!

Make sure to check out the "How to Prevent the Freshmen 15" inside the Food Tent! In addition, you can catch live entertainment in the food tent at noon on both days.

FOOD TENT MENU

Pork Fried Rice with Vegetables

Beef and Mushroom Enchiladas

Roasted Seasonal Vegetables

Edamame

Greek Pasta Salad

Soy Cookie

BEVIER CAFÉ



BEVIER CAFÉ



BEVIER CAFÉ



A special thanks to Chef Jean-Louis Ledent and his Bevier Café staff for this year's food tent!

After completing a four year culinary program in Liege, Belgium, Chef Ledent opened his first business at age 24. Six years later he, his wife and two daughters moved to the United States. In 1988, Chef bought a business called "The Embassy" in Arcola, IL. and renamed it "The French Embassy" – which gained national recognition as the only French bowling alley restaurant in America!

In August 2004, the Food Science and Human Nutrition (FSHN) department hired Chef Ledent as the Quantity Food Lab Manager of the student-run cafeteria – also known as Bevier Café. Chef Ledent stood as a great influence to the program and enjoys sharing his expertise and knowledge with the young leaders of the industry.

Several of the Hospitality Management and Dietetics courses intertwine through Bevier Cafe. Customers can choose from an outstanding selection of food, beverages and services.

While the menus are filled with standard items, the Bevier Café staff is available to customize your event and add that extra touch that you desire.

As part of the University of Illinois, we are a nonprofit and educational department. We are a self-sustaining laboratory: any income we receive is returned directly to our operation and educational program.

We look forward to working with you on creating a special event to remember. Please email ledent@illinois.edu to schedule an appointment or book an event.

COLLEGE OF ACES ADVENTURES

FSHN:

Guided Tour of the Food Science Pilot Plant

165 AESB

Tours begin at 10 am and 1 pm Friday and Saturday and will last approx. 35 minutes.

Investigate food processing methods like pasteurization, drying, extrusion and commercial canning as you tour a working food science pilot plant. Learn about the latest developments in food processing.

A Day in the Life of a FSHN Undergrad

144 Bevier Hall – Friday & Saturday 10 am, 12 pm

Come learn about a typical day of college from current FSHN students. From classes, work, internships, volunteering, and fun-explore different possibilities within this exciting department!

FSHN Career Exploration Panel

242 Bevier Hall – Friday 1 pm

What are the career opportunities with a degree from Food Science and Human Nutrition? Come learn more about careers related to food science, human nutrition, hospitality management, dietetics, and food industry and business from alumni and industry professionals currently working in the field. Don't forget to bring your questions to ask these experienced experts.

Food Chemistry: Structure and Functionality Protein

242 Bevier Hall – Saturday 11:30 am, 12:30 pm

Why do egg whites change from transparent to opaque when heated? Why does cream become a fluffy and delicious treat when whipped? Come learn about the chemistry behind these changes with food scientist Dr. Dawn Bohn!

ANSCI:

Companion Animal Biology and Care

150 ASL – Friday 12 pm

Presenter: Amy Fischer

This class will allow students to learn about what may be taught in a companion animal class here at the University of Illinois! Topics range from varying species and animal care techniques.

Dr. Hurley's Magical Milk Show

131 ASL – Saturday 11 am

Presenter: Dr. Walter Hurley

Discover the marvel of milk with Dr. Hurley, professor of animal science. Get ready for an interactive session on the art of butter making, milk extraction and much more!

Energy Needs of Sled Dogs

150 ASL – Friday 11 am

Presenter: Kelly Swanson

Breeding practices over the past few hundred years have resulted in the wide diversity of dog breeds in existence today. Because differences in body size and other physical characteristics, activity level, and age influence energy requirement, estimating the energy needs of any specific dog may be difficult. Severe environmental conditions also affect the amount of energy needed to maintain body weight. Racing sled dogs are exposed to extremely low temperatures and high activity levels for days or weeks at a time. Thus, estimating and meeting the energy needs of these amazing athletes is very challenging. Factors affecting energy requirements in all dogs and some of the specific challenges associated with sled dogs will be discussed.

How to Judge and Score Horses in Judging Contests

150 ASL – Friday 1:30 pm

Presenter: Dr. Kevin Kline

Come and discover the basics of judging and scoring horses in contests. Students can see what it is like to attend an animal science equine course.

ACE:

Agribusiness Management

LIAC Computer Lab 22 – Friday 1 pm

Presenter: Dr. Mazzocco

Course on a topic in agribusiness management.

Financial Planning Seminar

103 Mumford Hall – Friday 11 am, Saturday 12 pm

International Trade: Good or Bad?

103 Mumford Hall – Friday 10 am

Presenter: Bullock

There is much political controversy of the benefits and costs of international trade. You sometimes see bumper stickers that say “Buy American” on them. In the presentation, we will look at questions such as, “Does ‘buying American’ result in more jobs for American workers?”, and, “Would it be a good thing for the U.S. government to prohibit imports of foreign goods, in order to ‘keep the jobs at home?’”

Taxes or Permits for Greenhouse Gases?

103 Mumford Hall – Saturday 11 am

Presenter: Dr. Ando

We will do a brief game activity demonstrating the difference between a carbon tax and tradable carbon permits in dealing with climate change.

Changing Demand for Food

LIAC Computer Lab 22 – Friday 1:30

Presenter: Dr. Winter-Nelson

Food demand changes in predictable ways that reflect and also cause changes in the larger economy. This class will help you understand why food demand changes and what those changes imply for where we live and what we do.

CROPSCI:

CSI: Crop Sciences Inquiry

W-109 Turner Hall – will last about 20 minutes

Friday: 9:30, 10:30, 11:30, 12:30, 1:30, 2:30

Saturday: 10:30, 11:30, 12:30, 1:30

Investigate crop sciences and test your knowledge of plants, agronomy and agriculture. Explore the facts and fallacies using “I-clickers,” which poll the audience.

Explore a Molecular Genetics Lab

North Hallway, Turner Hall

Friday: 10:00, 11:00, 12:00, 1:00, 2:00

Saturday: 10:00, 11:00, 12:00, 1:00

Tour a molecular genetics lab with an ACES student. See tissue culture growth chambers for plant cultures and learn how students and faculty in Crop Sciences use molecular genetics to study soybeans and other plants. Meet in the north entry-way of Turner Hall.

Office of Admissions and Records

Monsanto Room, ACES Library

Prospective Students: Friday 2 pm, Saturday 12 pm

Admitted Students: Friday 2:30 pm, Saturday 1 pm

Financial Aid

Monsanto Room, ACES Library

Friday 1 pm, Saturday 11 pm

Parents' Presentation en Español

Monsanto Room, ACES Library

Friday 12 pm, Saturday 10 am

Housing Units

Monsanto Room, ACES Library

Friday 11 pm

NRES:

Floral Design to Music

1125 PSL – Friday 11 am and 1 pm

Presenter: Dianne Noland

While in the jungle, check out one of ExplorACES most popular exhibits! Watch as students interpret music to create eye-catching floral design.

Native Trees in “Your Jungle”

1125 PSL – Friday 12 pm

Is that a maple? Is that an oak? Come and learn the great native trees to use in your landscape. Dr. Gary Kling displays his easy-to-use website about trees and shrubs.

Self-Guided Conservatory Tours

PSL Conservatory

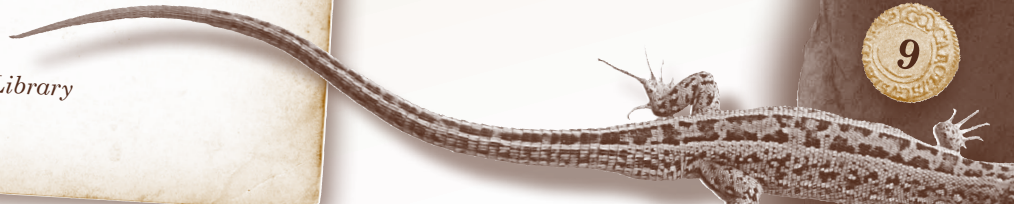
Friday 9 am–3 pm, Saturday 10 am–2 pm

Come enjoy the beauty of a tropical jungle in the PSL Conservatory! See orchids and tropical plants! We hope that you enjoy these beautiful and exotic plants.

Temple of Chocolate

1125 PSL – Saturday 12 pm

PSL's Indiana Jones, a.k.a., Dr. Skirvin, has searched the world over to find all types of chocolate. Learn about cacao and everything chocolate. Join us for a taste-testing adventure with Dr. Skirvin!



ACES LIBRARY, INFORMATION AND ALUMNI CENTER

Library Tours

Take a tour of one of newest libraries on campus! The Funk Library of Agricultural, Consumer and Environmental Sciences offers all the resources available to students, including an extensive collection of agriculture literature and reference volumes, group study rooms, computer lab, meeting spaces and a wonderful study environment. Meet at the second floor circulation desk to take the tour.

Minorities in Agriculture, Natural Resources and Related Sciences (MANRRS)

Sims Room, ACES Library

Discover the diversity the College of ACES has! MANRRS is a national society that welcomes membership of people of all racial and ethnic groups for participation in agricultural and related sciences careers. It promotes academic and professional advancement by empowering minorities in agriculture, natural resources, and related sciences.

International Business Immersion Program (IBIP)

Sims Room, ACES Library

The International Business Immersion Program (IBIP), ACE 436, provides stu-

dents in their sophomore or junior year with an in-depth, experiential immersion into the complex issues and constraints that confront international marketing channel participants in the food and agriculture sector. The course combines on-campus lectures with an intensive international immersion experience to Europe, Asia, or Latin America. By following the complete marketing channel from raw materials procurement to final consumption, participants gain first-hand knowledge of the necessary managerial decision-making skills required to successfully operate in today's global business environment.

ACES Student Development and Career Services

Heritage Room, ACES Library

From landing an internship to launching a career, let ACES Career Services be your guide. Find out about the resources available to help you every step of the way from choosing your major to deciding where to attend grad school.

Sigma Alpha Professional Agricultural Sorority

Morgan Room, ACES Library

Sigma Alpha is a professional agricultural sorority that promotes scholarship, leadership, service and fellowship among its members. This is an amazing organization for women who have an interest in agriculture to create lasting friendships and networking opportunities.

ACES Study Abroad

Sims Room, ACES Library

Add value to your education and credits towards your degree by participating in ACES Study Abroad. Enhance your employability and communication skills, while gaining a new understanding for world issues. You'll gain access to new information and technologies, while making friends.

Armory House

Morgan Room, ACES Library

Armory House is a co-ed residence that offers superior comfort and services. Choose from single, double and deluxe double rooms at Armory House Main or a luxurious single at Armory House Suites. Find out about all the amenities, academic programs and social activities at our exhibit.

Location: 1010 S. Second St., Champaign

Phone: 217-344-4499

IlliDell of Alpha Gamma Sigma Fraternity

Morgan Room, ACES Library

IlliDell of Alpha Gamma Sigma is an agricultural fraternity whose roots reach back to 1949. Founded on the ideals of friendship and equality, we at IlliDell have a very strong bond of brotherhood. Our belief in "Strength from Within" has helped us prepare for successful careers in agriculture.

Locations: 303 E. Chalmers St., Champaign

Phone: 217-344-3410



Alpha Gamma Rho (AGR) Fraternity

Morgan Room, ACES Library

Alpha Gamma Rho is unique in its dedication to agriculture, with a vision towards the future. Founded in 1906, Alpha Gamma Rho has been an up-standing professional fraternity, on the University of Illinois campus for over 100 years. Alpha Gamma Rho has been making better men by instilling them with the necessary social, mental, and moral skills for young men to be successful in life after college.

*Location: 58 E. Gregory Drive, Champaign
Phone: 217-337-4240*

FarmHouse Fraternity

Morgan Room, ACES Library

FarmHouse Fraternity welcomes young men from rural to metropolitan areas with diverse academic majors and personalities. FarmHouse seeks to build the whole man: intellectually, socially and morally, physically and religiously. The chapter consistently ranks in the top five in academics, brotherhood, philanthropy and social involvement among the fraternities on campus.

*Locations: 809 W. Pennsylvania Ave., Urbana
Phone: 217-344-4069*

Nabor House

Morgan Room, ACES Library

We are an agricultural cooperative fraternity of similar backgrounds and interests. If you're looking for affordable housing and want to live cooperatively with other guys who share a Christian faith and an agricultural background, then check out Nabor House Fraternity!

*Location: 1002 S. Lincoln Ave., Urbana
Phone: 217-344-3532*

4-H House Cooperative Sorority

Morgan Room, ACES Library

4-H House provides its 55 members with an enriching home environment, a scholastic foundation, and an active atmosphere at a very affordable cost. If you plan on attending the University of Illinois, need a fun and economical place to live and have at least five years of 4-H membership, 4-H House could be the place for you! Please stop by our booth for more information or to schedule a tour. You can also contact Dorothy Spencer at dspence3@illinois.edu. We look forward to seeing you!

*Location: 805 W. Ohio St., Urbana
Phone: 217-344-4784*

University Housing

Monsanto Room, ACES Library – Friday 11 am

From residence halls to certified housing, uncover your options for living on campus. Each year, over 25% of the entering freshman class choose to live in one of the many Private Certified Housing facilities. Find out more at the University Housing exhibit or check out <http://certified.housing.illinois.edu>. Get all your questions answered at an information session on Friday at 11:00 am in the ACES Library.

Financial Aid

Monsanto Room, ACES Library

Friday 1 pm, Saturday 11 am

Sims Room, ACES Library – Saturday 10 am–2 pm

Learn about the resources available to help you finance your education by attending presentations Friday at 1 pm and Saturday at 11 am. From figuring out the FAFSA to applying for student loans, Financial Aid has the answers you need at <http://www.osfa.illinois.edu>.



KARLIE ELLIOTT

Rankin, IL
Senior – Agricultural Communications, News Editorial

"The College of ACES allows you to accomplish big goals. Take advantage of the opportunities our College has to offer you!"

Parents' Presentation en Español

*Monsanto Room, ACES Library
Friday 12 pm and Saturday 10 am*

A program in Spanish for parents who would like to learn about what experience their son or daughter should expect in their time in the College of ACES. Parents will have the opportunity to hear about scholarship programs, housing opportunities and job responsibilities that will be available to them. This session will last approximately 1 hour.

Office of Undergraduate Admissions

Monsanto Room, ACES Library

Questions about the application and acceptance process? The Office of Undergraduate Admissions has the answers plus a wealth of resources for parents and students. Learn more by attending presentations for prospective students on Friday at 2 pm

and Saturday at 12 pm and for admitted students on Friday at 2:30 pm and Saturday at 1 pm, or visit <http://www.admissions.illinois.edu>.

James Scholar Honors Program & Media Team

Sims Room, ACES Library

The ACES James Scholar Honors Program and the James Scholar Media Team join forces to celebrate fifty years of fostering academic excellence in the College. Information will be presented about the benefits and opportunities awaiting students accepted into the Honors Program, including undergraduate research projects and more!

Careers in Crop Science

Heritage Room, ACES Library

Crop Science is an exciting field that uses knowledge about agriculture, biology, plant pathology, entomology, biotechnology, genetics, and other disciplines to improve plants

and their products and enhance agricultural production. Crop Sciences will continue to play a vital role in feeding the people of the world and providing energy needed in the coming decades. We offer a broad range of study opportunities that prepare you for rewarding careers. Visit the Crop Sciences exhibits to find out more.

Department of Animal Sciences Exhibit

Heritage Room, ACES Library

The Department of Animal Sciences has the following concentrations within the major Animal Sciences: Animal Business, Management and Industry, Companion, Recreational, Laboratory Animal Science, Food Animal Science, Biotechnology, Pre-Vet Medicine, as well as a minor in Animal Sciences.

Agribusiness Management

ACES Library Lab 22 – Friday 1 pm

Mini-course (15 minutes) on a topic in agribusiness management.

Presenter: Dr. Mazzocco

Changing Demand for Food

ACES Library Lab 22 – Friday 1:30 pm

Food demand changes in predictable ways that reflect and also cause changes in the larger economy. This class will help you understand why food demand changes and what those changes imply for where we live and what we do.

Presenter: Dr. Alex Winter-Nelson

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MITCH HEISLER

Warsaw, IL
Junior – Agricultural and Consumer Economics

"The College of ACES has truly become my home away from home. It makes this big university seem so much smaller. Everyone is so helpful and I have had experiences here that I never would have had anywhere else."

AGRICULTURAL ENGINEERING SCIENCES BUILDING

Accessible entrance on the south side of the building.

American Society of Agricultural and Biological Engineers Student Branch (ASABE)

Hallway AESB

The American Society of Agricultural and Biological Engineers (ASABE) at the University of Illinois is the student branch of the national ASABE organization. ASABE is an educational and scientific organization that seeks to advance engineering associated with agricultural, food and biological systems. The student branch at the U of I is organized by student-elected leaders and advised by departmental staff members. Members of the student branch can participate in numerous national contests and events across the country through the ASABE organization.

Illini Pullers

Hallway AESB

From mechanical design to construction, members of the Illini Pullers Club work as a team to

build ¼ scale pulling tractor for a national competition held in Peoria, IL, each year. Students gain real world experience, learn problem-solving skills and apply classroom knowledge in mechanical engineering and business management.

A Promising New Energy Source

Hallway AESB

Thermo-chemical conversion processes (TCC) can be used to convert biomass into a crude oil product. Using a feedstock that is normally considered a waste product, such as swine manure, improves the economic and environmental considerations of the TCC process and also the pork production process.

Air Cannons for Use in Agriculture and Forestry

Hallway AESB

Air cannons are used for various purposes in agriculture, such as a “puncher-planter,” and for general safety testing. The air cannon contains a unique piston mechanism that enables reproducible acceleration of a test object. Learn how the air cannon works and see it in action!

Bioenvironmental and Structural Systems Laboratory

Hallway AESB

The Bioenvironmental and Structural Systems (BSS) Laboratory is a research, product-testing and educational laboratory. The lab provides unbi-

ased engineering data to aid in the design of agricultural buildings and conducts performance tests on agricultural ventilation fans and poultry light traps.

Career Opportunities in Agricultural and Biological Engineering

Hallway AESB

Agricultural and Biological engineers solve engineering problems related to living organisms and systems. Careers are available in bioprocessing, renewable energy, water and air quality, food production systems, among many others. Employment is available in industry, government and academics.

Mechatronics and Its Applications to Off-Road Vehicles

Hallway AESB

Mechatronics is the study of machinery with a “brain”. Such machinery is integrated with mechanical parts, electrical components, and micro-processors. The difference between conventional machinery with electronic components and mechatronic machinery is that the former adds electronic components, while the latter integrates electronic components.

Biomass Feedstock Production

Hallway AESB

Biomass feedstock production (BFP) provides materials to the conversion of biomass into fuel, power, and value-added materials. BFP includes



CARLY RAKES

Auburn, IL

Junior – Agricultural Communications – News Editorial

"I am truly living my dream as a student here at the College of ACES. As a junior, I have met some amazing people and have taken advantage of lifelong opportunities that will help me develop my future career. I can't imagine life as a student anywhere else."

Illinois Laboratory for Agricultural Remote Sensing (ILARS)

Hallway AESB

ILARS conducts research and works with industry and government agencies to develop "real world" precision and site-specific tools for agriculture and natural resources management. ILARS is

the agronomic production of energy crops and the physical handling/delivery of biomass. The objective of this program is to develop effective and efficient engineering solutions and machinery for biomass feedstock production.

pathway. They are widely used commercially in the detergent, food and brewing industries. Recently enzymes have been used in producing biosensors to measure sugar and alcohol content of foods.

staffed with experts in crop science, agriculture engineering, geoagriculture engineering, geographic information systems, and remote sensing.

ABE 100 Project Posters

Hallway AESB

How energy efficient is your house? What is a living machine? What happens during ethanol fermentation? How far can a microsteam car go? How can we control erosion? Explore these questions by learning more about hands-on projects completed by our first-year Agricultural and Biological Engineering students.

Enzymes in Food Processing and BioSensing

Hallway AESB

Enzymes are proteins that are efficient catalysts for biochemical reactions. They speed up reactions by lowering the activation energy of a reaction

Soil and Water Resources Laboratory

Hallway AESB

The Soil and Water Resources Laboratory focuses on understanding the role of natural ecosystems in agriculture. The lab designs systems to control soil erosion and flooding, develops irrigation systems, consults on crop nutrition management, and designs ways to handle stormwater and control sediment.

Mechanical Weed Control

Hallway AESB

To address the trend of weeds becoming resistant to herbicides, we developed a mechanical weed control system for corn. The machine detects



Engineering Open House 2009

DIGITAL COMPUTER LABORATORY

Unlocking Potential

Discover, learn and experiment with the latest in engineering, science and technology at Engineering Open House. From liquid nitrogen to concrete crushing, Engineering Open House hopes to spark your curiosity in engineering. Located north of Green Street, six blocks north of Gregory Drive, Engineering Open House features research projects and interactive exhibits from university professors, students, organizations and sponsoring corporations. The shuttle bus makes stops at Engineering Open House.

Find more agricultural engineering exhibits on the north end of campus at Engineering Open House. The Digital Computer Laboratory is located on Springfield Avenue, north of Grainger Engineering Library.

AgTracker Robot

Digital Computer Lab, EOH

Robotics in crop production shows great potential in acquiring data from the field and for low energy operations. This robot can be used for mechanical weed control. This will become more important in the future, since an increasing number of weeds are becoming resistant to glyphosate.

Hydrogen Fuel Cells use in Residential Combined Heat and Power Systems

Digital Computer Laboratory, EOH

This exhibit presents the benefits of using a hydrogen fuel cell in a home as a combined heat and power system meaning that it provides both electricity and heat for consumption by the residents. The by-products of a hydrogen fuel cell include electricity,

heat, and water, thus making it environmentally friendly, and if located on-site of the demand, it will reduce electricity transmission losses while gaining the use of thermal energy for heating water or air.

ACES Undergraduate Library project presented by Chris Cirone (Peoria, IL).

Indoor Localization (I-GPS)

Digital Computer Laboratory, EOH

This robot knows its location using a spinning laser beam that hits three sensors in a board. The phase difference among the signals tells us the relative angles with respect to the receivers. This is translated into coordinates in a computer, which then sends the location to the robot wirelessly.

Interactive Carbon Cycle

Digital Computer Laboratory, EOH

In the BioMASS lab, we use models to help analyze how a complex system works. In this interactive game, become part of a carbon cycle model. We'll show how a complex system model works, and why little changes in the way we use fossil fuels can make a big difference to global warming.

where the corn plants are located in the row, and then uses mechanical arms that perform the mechanical weeding using harrows that avoid the corn stalks.

Observe Cosmic Particles from Outer Space!

Hallway AESB


In the cloud chamber alcohol is vaporized and drawn to a dry-ice cooled metal plate. The alcohol is super-saturated and when alpha particles pass through the vapor, they ionize the alcohol molecules and form condensation trails. In buildings, the arrangement can also make Radon particles visible.

Guided Tour of Food Science Pilot Plant

165, AESB

Investigate food processing methods like pasteurization, drying, extrusion and commercial canning as you tour a working food science pilot plant. Learn about the latest developments in food processing. Tours begin at 10 am and 1 pm and will last approximately 35 minutes.





ANIMAL SCIENCES LABORATORY

Hoof n' Horn

Hallway ASL

Visit Hoof n' Horn to learn about opportunities to develop a greater knowledge of the animal science industry. Hoof n' Horn club members have a deep interest in both animal agriculture and its affiliated industries. They aim to provide students with extracurricular opportunities in the field of animal sciences.

Pre-Veterinary Club

Hallway ASL

The U of I Pre-Veterinary Club provides information on career opportunities in the veterinary medicine field! If you are interested in this exciting profession and are trying to decide if Vet School is for you, stop by our booth!

Avian Infectious Bronchitis Immunization Suppresses Fertility and Testosterone Concentrations

Hallway ASL

This research examines the effects of the Avian Infectious Bronchitis Virus vaccine on rooster fertility. Poultry are routinely vaccinated against Avian Infectious Bronchitis Virus, which causes severe respiratory infection.

However, the vaccine leads to the development of stones in the reproductive tract and reduced testosterone production by the testes. This project explains the problems caused by this vaccine.

ACES Undergraduate Research project presented by Jessica Sweet (Orland Park, IL).

Determining the Functional Characteristics of Novel Carbohydrates

Hallway ASL

Some novel carbohydrates are believed to have beneficial characteristics that could have positive dietary impacts and are of growing interest to food product developers, health care professionals, and consumers. Soluble Fiber Dextrins are one example of these potentially valuable carbohydrates. The focus of this research is to evaluate potential positive characteristics such as the prospective digestion, caloric content, and glycemic and insulin responses using animal models. Reducing the glycemic response and caloric content is believed to help in weight management and have other positive health benefits.

ACES Undergraduate Research project presented by Marissa Katt (Decatur, IL).

Dietary Effects on Satiety in Dogs

Hallway ASL

This James Scholar project discovered the effects of a high carbohydrate, high protein, and high lipid

diet on dog satiety. By analyzing different hormones related to appetite regulation for each diet, this research aims to help better understand appetite control and to determine ways to curb obesity problems of dogs and possibly other companion animals.

ACES Undergraduate Research project presented by Jennifer Moczarnik (Bartlett, IL).

Effect of Ovarian Hormones on EMMPRIN Production by Uterine Epithelial Cells

Hallway ASL

Learn about this James Scholar's study on endometriosis in women. This researcher discovered the response of a lesion-causing protein of differing levels of female hormones in the body.

ACES Undergraduate Research project presented by Jayme Jeffries (Hampshire, IL).

Environmental Impact

Hallway ASL

Wild Boar is an important model for genetic analysis of environmental factors affecting animal physiology, as it is one of the few species containing feral, wild, and domestic animals within the same species.

ACES Undergraduate Research project presented by Tara Baxter (Batavia, IL).

Feeding DDGS

Hallway ASL

The emphasis of this study evaluates molt diets containing several levels of DDGS. DDGS are an

inexpensive and highly economical ingredient in many areas of the midwest due to the increase in ethanol plants. By evaluating many different levels of DDGS, this study provides egg producers information on how to most effectively and economically use DDGS in molt diets.

ACES Undergraduate Research project presented by Denise Studer (Wilmington, IL).

Asian Elephant DNA

Hallway ASL

Learn about the sequences of Asian elephant DNA. This project was conducted to help

verify genetic diversity in the Asian elephant and will aid in badly needed conservation efforts of the species.

ACES Undergraduate Research project presented by Barbara Batke (Wheaton, IL).

Sperm Binding to Glycans of Zona Pellucida

Hallway ASL

Check out this James Scholar's research on the ability of sperm to bind to specific carbohydrates found in the zona pellucida (outer membrane) of an oocyte. Using porcine oocytes and semen, we conducted experiments using specific carbohydrates at varying concentrations to determine which were efficient at binding sperm.

ACES Undergraduate Research project presented by Rebecca O'Neill (Woodstock, IL).

The Binding of Glycans to Mammalian Sperm

Hallway ASL

Birds and bats can store sperm in the oviduct of the female reproductive tract for several months, while pigs can only store sperm for one to two days. This James Scholar found this subject area interesting and decided to study the characteristics of the adhesion molecules, allowing sperm to bind to the oviduct until the optimal point of fertilization.

ACES Undergraduate Research project presented by Stephanie Bender (Buffalo Grove, IL).

Domestic Canines

Hallway ASL

This James Scholar research regards the behavioral modification and its efficacy in domestic canines.

ACES Undergraduate Research project presented by Stephen Delia (Clarendon Hills, IL).

BOB CLARK

Long Point, IL
Crop Sciences

"I chose ACES for its Crop Sciences curriculum. I quickly learned that ACES is much more than just great curriculum. ACES students and faculty are amazing to work with and the opportunities available through the College are endless. My advice to students is to develop relationships with the faculty and staff throughout the College. They are great and are always available to help you out, whether it is with class work or finding a job."



Analysis of Manatee Fecal Microbiota

Hallway ASL

Manatees and similar species may be the only known herbivorous aquatic mammals. The manatee's digestive system has several unique structures and a unique profile of fecal microbiota compared to similar land mammal herbivores. Research into

what microbiota are present in manatee feces may give valuable information about manatee digestion. We studied the DNA of the microbiota populations present in manatee fecal samples using Denaturant Gradient Gel Electrophoresis (DGGE). This information will be compared to similar research being done on populations of manatees to see if diet location plays a role in what microbiota populations are present.

ACES Undergraduate Research presented by Kristina Gabrys (Elgin, IL).

James Scholar Project by Allison Pepich

Hallway ASL

Feral cats are proving to be quite a problem when it comes to local wildlife, as their hunting may be causing a decrease in various native species. The aim of this project tracks the movement of multiple feral cats, as well as collecting whisker samples, which are being analyzed to determine what the cats ate. We can actually figure out whether the cat ate plants or animals! Hopefully this will tell us more about how feral cats are impacting the animal populations in the world around us.

ACES Undergraduate Research project presented by Allison Pepich (Burbank, IL).

Fat Tissues from Mice

Hallway ASL

Find out how liver and fat tissues were extracted from mice that were fed conjugated linoleic acid.



CHRIS FRANCIS

Wilmington, IL
Sophomore - Environmental Economics (ACE)

"As a fourth generation College of ACES student, I have discovered that ACES is a family tradition well-founded in the excellence represented by all who have come before me. I have also found an ACES tradition of a great family atmosphere. It really is a place where everyone can get involved, learn, and contribute to the education of others. Make no mistake, an education from ACES is more than an education; it is an entire experience in learning, leading, living, and launching your future. I am proud to call the College of ACES home, and I hope you'll come join the family!"

Extracted tissues from experimental mice were compared to control mice that did not consume this particular conjugated linoleic acid. Cutting edge technology, including the use of microarray technology, is used to analyze the tissues and determine how genetic expressions are affected by the diet in these mice.

ACES Undergraduate Research project presented by Amy Thatcher (Flossmoor, IL).

Using Feline Whiskers As Insight To Their Diet

Hallway ASL

This project looks at the composition of cat whiskers in order to compare the diets of domestic and feral cats. Feral cats are wild and eat anything from cat food that people leave out for them, to birds and small mammals. By using whiskers from cats with

known diets, we hope to be able to tell what their relatives are consuming in the wild.

ACES Undergraduate Research project presented by Sara Uphoff (Mattoon, IL).

Study Abroad to Denmark

Hallway ASL

Come learn about Sarah Francik's research conducted during her study abroad trip to Denmark!

ACES Undergraduate Research project presented by Sarah Francik (Rockford, IL).

ADVENTURES

Dr. Hurley's Magical Milk Show

131 ASL – Saturday 11:00 am

Discover the marvel of milk with Dr. Hurley, professor of animal sciences. Get ready for an interactive session on the art of butter making, milk extraction and much more!

Presented by Dr. Walter Hurley

How To Judge and Score Horses In Judging Contests

150 ASL – Friday 1:30 pm

Come and discover the basics of judging and scoring horses in contests. Students can see what it is like to attend an animal science equine course.

Presented by Dr. Kevin Kline.

Companion Animal Biology and Care

150 ASL 12:00 pm Friday

This class will allow students to learn about what may be taught in a companion animal class here at the University of Illinois! Topics range from varying species and animal care techniques.

Presented by Amy Fischer

Energy Needs of Sled Dogs

150 ASL 11:00 pm Friday

Breeding practices over the past few hundred years have resulted in the wide diversity of dog breeds. Differences in body size and other physical characteristics, activity level, and age influence energy requirement, estimating the energy needs of any specific dog may be difficult. Severe environmental conditions also affect the amount of energy needed to maintain body weight. Racing sled dogs are exposed to extremely low temperatures and high activity levels for days or weeks at a time. Thus, estimating and meeting the energy needs of these amazing athletes is very challenging.

Presented by Kelly Swanson

CASSIE BECKER

Carlyle, IL
Sophomore – Agricultural Communications

"The great thing about the College of ACES is that it is not only helping you graduate from the University, but it is preparing you for your future. The College of ACES gives you the tools and knowledge to succeed in the real world through student organizations, leadership workshops, undergrad research opportunities and so much more. We believe that grades, of course, matter at college - but it's the real life experiences and your involvement within the college that will most likely help you the most in your future."





BEVIER HALL

Accessible entrance on the south side of the building.

ADVENTURES -----

A Day in the Life of a FSHN Undergrad

*144 Bevier Hall – Friday and Saturday
10 am, 12 pm*

Come learn about a typical day of college from current FSHN students. From classes, work, internships, volunteering, and fun-explore different possibilities within this exciting department!

Food Chemistry: Protein Structure and Functionality

*Presented by Dr. Dawn Bohn
242 Bevier – Saturday 11:30 am, 12:30 pm*

Why do egg whites change from transparent to opaque when heated? Why does cream become a fluffy and delicious treat when whipped? Come learn about the chemistry behind these changes.

Career Exploration Panel

242 Bevier Hall – Friday 1 pm

What are the career opportunities with a degree from Food Science and Human Nutrition? Come learn more about careers

related to food science, human nutrition, hospitality management, dietetics, and food industry and business from alumni and industry professionals currently working in the field. Don't forget to bring your questions to ask these experts.

A Qualitative Evaluation of a Social Skills Program for Teens with an Autism Spectrum Disorder

Bevier Hall, Bevier Commons

The first goal of the study is to evaluate the effectiveness of The Autism Programs Teen Connections program, which is designed to improve social skills among high-functioning teens diagnosed with an autism spectrum disorder, from the perspective of parents. The second goal is to provide feedback to improve the program. Research is still being conducted, but expectations include finding the program beneficial as well as finding ways to better the program.

Got Ag Ed?

Bevier Hall, First Floor Hallway

Do you have a passion for agriculture? Do you want a rewarding career that impacts the lives of numerous young people and future leaders? Come see for yourself the opportunities that await you with the University of Illinois Agricultural Education program! You will have the chance to meet current students in the program who know the ropes as well as gather the facts about the need for agricultural educators. Did you know there were 60

openings for agriculture teachers in our state alone last year? Stop by the display to learn about the opportunities and to explore why you should teach Agriculture!

Association of Food Technologists

Bevier Hall, Second Floor Hallway

The Association of Food Technologists is the official student organization for students in Food Science, Food Industry and Business. With our exhibit we try to let incoming students know more about the major and why they should think about a career in Food Science. Every year we meet many individuals who are interested in our major and feel we are successful in showing them the benefits to joining the FSHN Family.

Career Opportunities in Agricultural Communications

Bevier Hall, Second Floor Hallway

If you have strong communication skills and an interest in the agriculture and food sector, learn about the career opportunities in agriculture-related advertising, news editorial and broadcasting.

Food Product Development

Bevier Hall, Second Floor Hallway

Discover how new foods go from a product idea to the supermarket shelf. The FSHN 466 course and club gives students hands-on experience in this exciting application of food science.



Gone FSHN Welcome Table

Bevier Hall, First Floor Hallway

Come receive a warm welcome from Food Science and Human Nutrition alumni and current students. Stop by and ask questions about programs, majors, careers, classes, Bevier, and life as a FSHN student! Pick up information here about other clubs and programs being featured at Bevier this weekend!

Hospitality Management Association

Bevier Hall, Second Floor Hallway

This exhibit explores the possibilities of the Hospitality Industry and the Hospitality Management program here at Illinois. We will be giving tours on the hour on Friday, and as needed on Saturday.

Human Nutrition Club

Bevier Hall, Bevier Commons

Are you interested in health? Considering a pre-professional degree? Come and explore the possibilities of pursuing a degree in Human Nutrition. While you're here, inquire with current students about the opportunities available by obtaining a degree in Human Nutrition.

Illini Agricultural Communicators of Tomorrow

Bevier Hall, First Floor Hallway

Illini ACT is a group for communicators who have a passion for agriculture. Our monthly meetings typically feature group time with an admired professional in the industry and serve as a way to catch up with friends who share similar interests. ACT plans a professional development trip in the spring each year for all students who

are interested. This organization enables students interested in agricultural communications to develop a professional network, learn from their peers and discover their career path.

Illinois Leadership Center

Bevier Hall

Did you know that leadership is one of the top five skills employers look for in new employees? Visit the Illinois Leadership Center's booth to see what opportunities exist for you to develop this essential skill for success.

Students in Technical Education Programs

Bevier Hall, Bevier Commons

A study looking at the motivation of students enrolled in high school technical education programs in Illinois.

*ACES Undergraduate Research Project presented by
Andrea Steele (Seneca, IL)*

GEORGE WITCHEK

Bensenville, IL
Sophomore - Hospitality Management

"The College of ACES is more than just an academic sector; it is a family. Get involved with what makes you happy. When you leave here after four years, you want to be able to look back and have no regrets."



KAYLA KING

Nokomis, IL
Senior – Agricultural Communications – News
Editing

"The thing I like most about the College of ACES is the diversity of opportunities it gives to each student. Not only do students get a great education, but we also have potential to experience agriculture through extracurricular activities and our alumni."



National Soybean Research Center

Bevier Hall

National Soybean Research Laboratory: Looking for a healthy snack packed with protein and energy as you discover the treasures of the College of ACES? Come by NSRL, crunch on some soy nuts and learn about soy biodiesel fuel. Try making biodiesel and experience the curriculum rolling out soon to a high school near you.

Rainbow of Functional Foods

Bevier Hall, Bevier Commons

Nutritional Sciences Graduate Student Association (NSGSA): A Rainbow a Day Really Can Keep the Doctor Away! The NSGSA will show you the connection between diet & health...in a very colorful

way! Come to their booth to learn exactly why you should eat your fruits & veggies. Learn about the rainbow of functional foods, and then show off your new knowledge by playing their fun color game. You might even win a delicious & healthful prize!

Student Dietetic Association

Bevier Hall, Bevier Commons

The Student Dietetic Association is an organization for dietetic students who want to get involved and learn more about career opportunities. Come visit our table for a bean bag game and nutrition trivia!

Undergraduate Research

Bevier Hall, Bevier Commons

Interested in scientific research as an undergraduate? Now, you can hear about research opportunities in ACES and talk with senior students who will be presenting their findings. Students featured: Michelle Wrhel "Planning a weight loss and weight maintenance diet by preparing core meals rather than by counting calories"; Michelle Moy "Papain enzyme in papaya"; Eliza Chan "Spleen Gene Expression of Delta-6-Desaturase Knockout Mouse".

AFT: Food Science

Bevier Hall, Second Floor Hallway

The Association of Food Technologists is a club for students in Food Science. Come see a new and innovative way to look at food as well as take a dip in our Chocolate Fountain.





MUMFORD HALL

ACE ADVENTURES ---

International Trade: Good or Bad?

103 Mumford Hall – Friday 10 am

There is much political controversy of the benefits and costs of international trade. You sometimes see bumper stickers that say, “Buy American” on them. In the presentation, we will look at questions such as, “Does ‘buying American result in more jobs for American workers?” and “Would it be a good thing for the U.S. government to prohibit imports of foreign goods, in order to ‘keep the jobs at home?’”

Presented by David Bullock

Financial Planning Mini-Course

103 Mumford Hall – Friday 11 am and Saturday 12 pm

This mini-course will be based on ACE 240, Personal Financial Planning. It will introduce examples of financial decisions

facing individuals and families, as well as discuss career opportunities in the financial planning field.

Presented by Dr. John Braden

Taxes or Permits for Greenhouse Gases?

103 Mumford Hall – Saturday 11 am

Participate in a brief game demonstrating the difference between a carbon tax and tradable carbon permits in dealing with climate change.

Presented by Amy Ando

ACE Department

203 Mumford Hall

The Agricultural and Consumer Economics Department strives to meet the needs of students interested in a business-related field. Students majoring in ACE can select concentrations in Agri-Accounting; Agri-Finance; Farm Management; Agribusiness Markets and Management; Financial Planning; Consumer Economics and Finance; Environmental Economics and Policy; Public Policy and Law; Individually Planned Curriculum; and Policy, International Trade, and Development. Students have a variety of options allowing them to select a program best suited to their personal goals and career interests.



MATTHEW BRISCOE

Flora, Illinois
Junior - Agricultural Consumer & Economics, Markets & Management

“I chose the College of ACES at the University of Illinois because of the small town feel ACES has. Coming from a rural community in southern Illinois, I wanted to have the experience where I was not just a number, but a person with value. The College of ACES was just the place where I could take my small town values and knowledge and feel right at home.”

SEMECIA WILLIAMS

Chicago, IL
Agri-Accounting

"ACES is a great college for those who are interested in excelling with a strong foundation of people supporting you along the way."



On-site Storm Water Technology Adoption for the Chicago Green Homes Program

203 Mumford Hall

The Chicago Green Homes Program is a residential program. The goal of this research is to determine if there are certain census-tract level demographics that influence participation in the storm water elements of the Chicago Green Homes Program. Our model will analyze whether income, age, education, home ownership, multi-family dwellings, and race influence whether or not participants use storm water

management practices that receive credit in the Program. These practices include green roofs, rain barrels, rain gardens, permeable materials, and native landscapes.

ACES Undergraduate Research Project presented by Kelly Siegel (Chicago, IL).

Agricultural and Consumer Economics Club

203 Mumford Hall

Visit the ACE Club booth to find out ways Agricultural and Consumer Economics students can get involved on campus, meet current ACE students, and play an interactive game to learn more about the ACE Department. Pick up a free item and register for a chance to win a grand prize.

Scholar's goal is to obtain the most accurate results by taking local weather and climate differences into consideration.

ACES Undergraduate Research project presented by Jessica Sheppard (East Peoria, IL).

Collegiate 4-H

203 Mumford Hall

An exciting adventure awaits you in Collegiate 4-H, a service oriented organization dedicated to youth development and community enrichment. Play a bean-bag toss game to test your knowledge of the organization and speak with members about their experiences.

Are Crop Trend Yields Increasing at a Faster Rate in Illinois?

203 Mumford Hall

Crop yields are affected by many factors, such as weather, seed genetics, and producer management. The purpose of this research is to investigate the effects of weather and technology on crop yields in Illinois using county weather data. This James



2009 NATURALLY ILLINOIS EXPO

INSTITUTE OF NATURAL RESOURCE SUSTAINABILITY
FRIDAY, MARCH 13 AND SATURDAY, MARCH 14

Plan to join us in the spring for the 2009 Naturally Illinois Expo, hosted by the Institute of Natural Resource Sustainability. The Expo will build on the tradition established by the Illinois State Geological Survey's (ISGS) Open House. The Expo celebrates the formation of the University of Illinois' Institute of Natural Resource Sustainability (INRS), which unites the four state scientific surveys—the ISGS, the Illinois Natural History Survey, the Illinois Sustainable Technology Center (formerly the Waste Management Research Center), and the Illinois State Water Survey. The Expo will be held at the Natural Resources Building, 607-615 East Peabody Drive, Champaign, Illinois (the same site as the former ISGS Open House). The hours of operation are Friday, March 13, 9:00 am to 3:00 pm and Saturday, March 14, 10:00 am to 3:00 pm. The Expo is free and open to the public.

The Naturally Illinois Expo is a great school field trip destination!

The second running of the Earth, Wind, & Fire 5K Run and 2.5K Walk will kick off at 9:00 am Saturday morning.

Find more information, as it becomes available, on our Web site at www.inrs.illinois.edu/expo/index.shtml, or e-mail expo@inrs.illinois.edu, or contact Eric Plankell at (217) 265-8029. We recommend that school field trips and other large groups contact us in advance so we can help them plan and ensure that everyone has the best experience possible.

You will find over fifty exhibits, demonstrations, and hands-on activities of interest to the public, teachers, and students of all levels, especially those who may be interested in science-related careers. New exhibits will include:

FUN WITH WEATHER

STREAM TABLE

RAIN CHECK NETWORK

TIPS TO HELP YOU GO "GREEN"

COAL SWAMP

MUD TO PARKS

ILLINOIS NATURAL AREAS INVENTORY

MEDICAL ENTOMOLOGY LAB

INHS TRAVELING SCIENCE CENTER

AND MUCH MORE!

PLANT SCIENCES LABORATORY AND GREENHOUSES

*Accessible entrance on
the south side of the building.*

ADVENTURES -----

Floral Design to Music

1125, PSL – Friday 11 am and 1 pm

While in the jungle, check out one of ExplorACES most popular exhibits! Watch as students interpret music to create eye-catching floral design.

Design Your Own Jungle

1303, PSL – TIME?

Join the landscape design students and view completed landscape “works of art.” Get a taste of drafting 101 by following interactive stations throughout the classroom.

Native Trees in Your Jungle

1125, PSL – Friday 12 pm

Is that a maple? Is that an oak? Come and learn the great native trees to use

in your landscape. Dr. Gary Kling displays his easy-to-use website about trees and shrubs.

The Temple of Chocolate

1125, PSL – Saturday 12 pm

PSL’s Indiana Jones, a.k.a., Dr. Skirvin has searched the world over to find all types of chocolate. Learn about cacao and everything chocolate. Join us for a taste-testing adventure with Dr. Skirvin!

Self-guided Conservatory Tours

PSL Conservatory

Come enjoy the beauty of a tropical jungle in the PSL Conservatory! See orchids and tropical plants! We hope that you enjoy these beautiful and exotic plants.

Do You Know Your Plants?

1125, PSL

Take on the Horticulture Honor Society and test your plant identification skills. Challenge yourself and see how good you are. Maybe there’s a horticulture career in your future!

Floral Design Jeopardy

1125, PSL

Floral Design club invites you to win flowers by answering floral design and florist-related questions.

Horticulture Club: From “our jungle” to yours!

West Hallway, 1125 PSL

Come join the Horticulture Club to propagate your very own plant to take home! You can check out photos of activities and speak with club members on the benefits of joining the Horticulture Club. Find out about our fun and exciting workshops, events, and the Mom’s Day Flower Show!

Illini Foresters

West hallway PSL

Visit this interactive display exhibiting the Illini Foresters student organization, forestry in the U.S., and the University of Illinois’ forestry education program. Free tree seedlings!



WELCOME TO

Illini Wildlife Society

West hallway PSL

This is where the rubber meets the road for wildlife conservation majors and outdoor enthusiasts! Come check out some great opportunities for students to get engaged in the world of wildlife biology.

Students for Environmental ConcernS (SECS)

West hallway of PSL

Students for Environmental ConcernS (SECS) is a dynamic student-run environmental organization at the University of Illinois. Come check out information on the new student run farm and composting initiative, learn about past SECS accomplishments such as battery recycling and the passing of a Green Technology Fee, and find out how to get involved and affect real change on this campus!

MAXINE ROMAN

Chicago, IL
Junior - Food Science, Minor in Chemistry and Spanish

"The College of ACES has such great alumni that come back and recruit for their companies. Networking with alumni landed me my dream internship!"

Turf Club

PSL

Ever think about having a career in Turfgrass Management? Come ask students questions about possible opportunities in Turfgrass Management. Students will also explain how to effectively manage your home lawn!

A Profile of the Family Forest Landowner in Southern Illinois

PSL

Check out a poster presentation with the results of a mail survey administered to family forest landowners in Southern Illinois that reflects their attitudes on forestry, the environment, and the Shawnee National Forest.

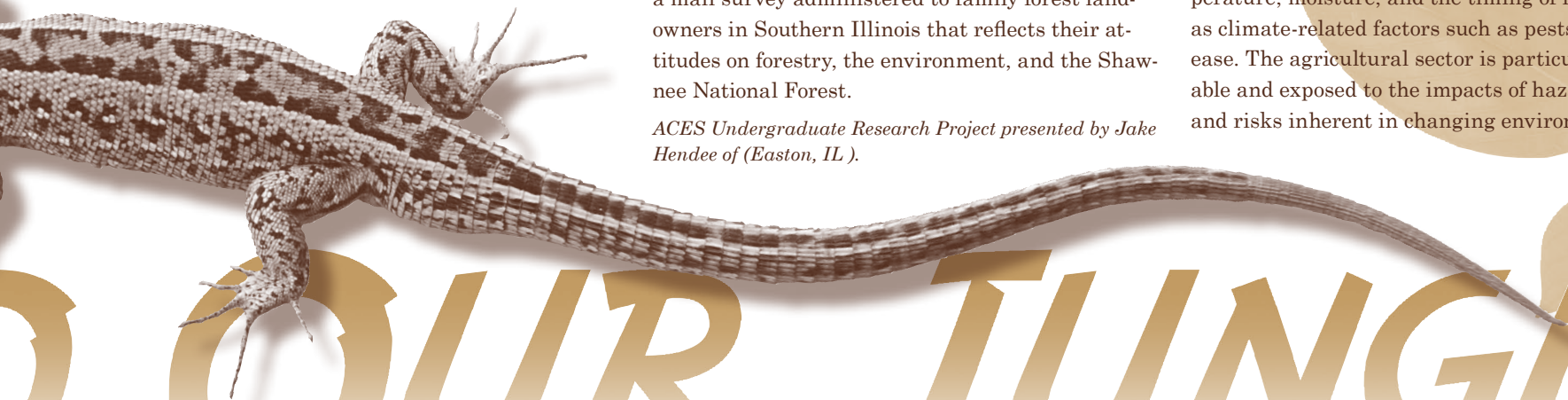
ACES Undergraduate Research Project presented by Jake Hendee of (Easton, IL).



Agriculture in Southern Illinois: What are the risks and hazards?

PSL

In the state of Illinois, the agriculture industry accounts for nearly one-fourth of state employment, providing jobs for 1.5 million people. However, farming depends on climatic factors such as temperature, moisture, and the timing of frosts as well as climate-related factors such as pests and disease. The agricultural sector is particularly vulnerable and exposed to the impacts of hazard events and risks inherent in changing environments.



OUR JUNGLE



ZACH SCHMIDT

Carrollton, IL
Junior - Ag Business

"Starting out at a new school is tough, but there is no better place than the College of ACES to make lifelong friends...so take advantage of it!"

social dynamics, and economic conditions. Research during 2008 revealed that Southern Illinois farmers are generally on their own when it comes to disaster preparedness.

ACES Undergraduate Research Project presented by Lisa Pickert of (Chicago, IL)

Effect of Urbanization on Woodchucks

PSL

After tracking woodchucks throughout urban and rural areas, data was taken and calculated on their home range as well as their life span. Urbanization was suggested to aid in woodchuck longevity because of decreased vigilance periods leading to more time for foraging and increasing weight for hibernation. Behavioral observations were also taken to record vigilance times.

ACES Undergraduate Research Project presented by Sarah Turek of (Troy, IL).

Environmental Change Institute

PSL

Find out how the Environmental Change Institute is working to increase our understanding of complex food, energy and environmental systems problems caused by environmental change. The ECI looks for way to develop practical solutions to linking the highest quality science with effective public policies to diminish and mitigate the impacts of environmental change.

Horticulture Career Exhibit

West hallway PSL

Your horticulture degree...How far can it take you? Check out where horticulture alumni have paved their way in all parts of the United States!

Insects of the Jungle

Turner Hall hallway

Discover the world of insects in the Illinois "jungle". Student insect collections will be on display and common insect pests will be shown.

National Great Rivers Research and Education Center (NGRREC)

West hallway of PSL

The primary goal of NGRREC is to provide consistent high-quality data that can be used by scientists to measure how the conditions of our state's streams are changing over time; to educate and inform Illinois citizens about the ecology and importance of Illinois water resources; and to provide an opportunity for citizens to become involved in the stewardship of their state's rivers and streams.

Candice Miller's Undergraduate Research Project

My exhibit will be about my project for my James Scholar completion which consisted of helping with a textbook edit in floral design and floral photography.

ACES Undergraduate Research project presented by Candice Miller (Piper City, IL).



STOCK PAVILION

Be sure to visit the Animal Sciences Laboratory for more exhibits.

Dairy Club Milk-a-Cow/ Fistulated Cow Booth

Stock Pavilion

We will be having our regular Milk-a-Cow Booth, in addition to a description of our club and the research involving fistulated cattle. Come observe a fistulated cow, a cow with a hole in its stomach, and try your hand at milking!

Veterinarians without Borders

Stock Pavilion

Veterinarians without Borders connects and organizes students to volunteer with wildlife and conservation programs in developing countries, assists with funding these trips where possible and encourages cultural immersion and awareness of the local socio-economic and environmental issues.

Companion Animals Club

Stock Pavilion

The Companion Animals Club is dedicated to providing educational resources and fun to all animal lovers. At our monthly meetings, guest speakers discuss a wide variety of topics from animal health to animal welfare and rescue. The Companion Animals Club also holds fundraisers to benefit local non-profit organizations and animal shelters.

Rodeo Club at the University of Illinois

Stock Pavilion

The Rodeo Club will be setting up an educational table with our club board, as well as present rodeo equipment used to compete in various rodeo sports. We will also bring calf roping dummies and ropes for people to learn roping techniques. Demonstrations on the bucking barrel will also be made to show proper bull and bronco riding techniques.

JARED ROSKAMP

Sutter, IL
Crop Sciences

"I chose ACES because agriculture was a large influence in my life. It was also a smaller college that helped to make a large campus into a smaller one."

Illini Equestrians

Stock Pavilion

Visit the Illini Equestrians booth to pet a horse and learn about horsemanship. Students will be on hand to answer your questions about Western and English riding. Members of the Illini Equestrians compete in the InterCollegiate Horse Show Association.

Illini Poultry Club

Stock Pavilion

We will be having live chickens for the students to observe and pet (4 hens and 1 rooster), baby chicks will be hatching throughout the day in our wooden incubator and there will be a trivia game. In addition, handouts and information about the new poultry farm will be available.



ALYSSA BANE

Arrowsmith, IL
Senor - Agricultural Communications – Advertising

"My word of advice for incoming students is BALANCE. College is about learning how to learn and live independently. It's not just about going to classes and getting a degree -- it's about networking, getting involved, challenging yourself, making friends and seeking out opportunities. It's not easy, but it's very important to maintain balance between your academics, involvement in clubs and organizations, work and social time. It takes all of these factors to mold you into the person you will become and employers are looking for well-rounded, passionate individuals who have the ability to learn quickly, work with others and maintain balance in their lives."



Teachers for Creatures

Stock Pavilion

Visit the Teachers for Creatures exhibit to find out how you can become involved with humane education in the College of ACES! This student group reaches out to university students, children, and other members of the community to spread a humane message about animals! Also at this exhibit are several activities for kids relating to man's best friend- the dog!

CFDA-SE and Quantum Dot Labeling of Adipose Derived Mesenchymal Stem Cells

Stock Pavilion

Adipose derived mesenchymal stem cells are cells isolated from the fat of adult pigs. This research works with labeling stem cells in different ways in order to track them both in a laboratory setting as well as in the live animal. The research provides an optimal protocol for labeling cells with a fluorescent dye (CFDA-SE) as well as Quantum Dots, a different method of labeling cells with a variety of colors. The research proceeds with comparing these two techniques through a 4 week time study, determining the duration of the labeling effect.

ACES Undergraduate Research Project presented by Anna Massie (Springfield, IL)

Determining the Role of MMPs and Basigin in the Domestic Hens

Stock Pavilion

I have been working to isolate RNA from chicken ovaries and synthesizing cDNA from the

RNA. I have used primers to detect if there are MMP-2, MMP-9, and Basigin hormones present in certain leghorn hens with and without ovarian cancer.

ACES Undergraduate Research Project presented by Jamie Reichert (Peoria Heights, IL)

Determining the Behavioral Patterns of Gestating Sows in Standard Gestation Crates vs. "Flex" Stalls

Stock Pavilion

Determining the frequency and duration of stereotypical behaviors in gestating sows housed in standard gestation crates or "flex" stalls by analyzing ethogram data.

ACES Undergraduate Research Project presented by Caryn Lowe (Naperville, IL)

Effect of HBCD on Boar Sperm Fertility during In Vitro Fertilization

Stock Pavilion

Historically, pig semen has been very difficult to freeze for long term storage. Once frozen, the sperm loses motility and cannot fertilize an egg. It is important for both swine producers and researchers to improve the techniques that we use to freeze sperm.

ACES Undergraduate Research Project presented by Erika Weimer (Easton, IL)

Meat Science Club

Stock Pavilion

Do you know where a T-bone steak comes from? How about a brisket? Stop by the Meat Science Club exhibit to find out the answers. Play Name-that-Cut and win a prize!



Effectiveness of Companion Animals Present During Humane Education Presentations

Stock Pavilion

This project examines whether or not having a companion animal present during human education activities helps children learn the material better. To our knowledge, no studies have been conducted on this topic. Results will be very useful to humane educators and teachers across the country, as it is directly applicable to the work they do.

ACES Undergraduate Research project presented by Elaine Schmid (Cissna Park, IL) and Jill Kirschenbaum (Glenwood, IL).

Progesterone Receptor Location in the Murine Uterus

Stock Pavilion

This research sought to determine in which layer receptors for the hormone Progesterone are located in the murine uterus—the stroma and/or epithelium. Understanding the pathway of Progesterone in the uterus is important because proper Proges-

terone stimulation is necessary for the uterus to be receptive to embryo implantation.

ACES Undergraduate Research project presented by Kerry Spiewak (Batavia, IL).

The Effect of Passaging on Equine Osteoblast Differentiation

Stock Pavilion

Discover how horse bone cell formation and changes can be affected by a technique called passaging; where bone cells grown over time are moved to new culture plates to grow new cell populations.

ACES Undergraduate Research project presented by Christine Fox (Naperville, IL).

Undergraduate Research Project by Lauren Blair

Stock Pavilion

This project focuses on lactose, the primary sugar in milk. The goal was to determine whether or not lactose is also found in the muscle of pigs, and what affect this might have on people who are lactose intolerant, unable to drink milk.

ACES Undergraduate Research project presented by Lauren Blair (O'Fallon, IL).



PATRICK HOLLAND

Bushnell, IL
Sophomore - Ag Business

"When I first came here I was concerned with going from such a small high school to a huge environment, but being in the College of ACES helped me so much. The faculty members are always willing to work with students, the classes are small enough that you can get one on one with your professor and you have the same general people in all your classes. The College of ACES is more like a family and it has helped me immensely."





TURNER HALL

ADVENTURES -----

CSI: Crop Sciences Inquiry

W-109 Turner Hall

Investigate crop sciences and test your knowledge of plants, agronomy and agriculture. Explore the facts and fallacies using “I-clickers,” which poll the audience. Offered at 9:30, 10:30, 11:30, 12:30, 1:30, and 2:30 Friday; and 10:30, 11:30, 12:30, 1:30 on Saturday. The mini-class will last about 20 minutes.

Explore A Molecular Genetics Lab

North hallway Turner Hall – then to ERML for tour

Tour a molecular genetics lab with an ACES student. See tissue culture growth chambers for plant cultures and learn how students and faculty in Crop Sciences use molecular genetics to study soybeans and other plants. Meet in the north entryway of Turner Hall. Times: Friday – 10 am, 11 am, 12 pm, 1 pm, 2 pm; Saturday – 10 am, 11 am, 12 pm, 1 pm.

Discover Disease Resistant Plants

W-121 Turner Hall

Visit this exhibit to learn about some common pests of crop plants and see the difference between pest resistance and susceptible plants. See how well you can score resistant and susceptible plants.

Field and Furrow Club

AE-103 Turner Hall

Think you know your plant pests? Come and take the Field and Furrow Club's quiz on plant pests and herbicide injury. Be sure to ask about the club's many fun activities.

Plant Breeding Improvements – From Wild Species to Crops

W-121 Turner Hall

Our crop plants were derived from wild uncultivated plants many thousands of years ago. Come to this exhibit to explore some plant improvements, and see some of the wild ancestors of our crops.

Growing Opportunities in Crop Sciences

West hallway Turner Hall

Where will a major in Crop Sciences take you? Visit this exhibit to discover the growing number of opportunities in Crop Sciences, see the specializations within the major, and meet alumni and current students from the department.

Amazing Mutants of Maize

AE-103 Turner Hall

Explore the oddities of the corn world! See purple and white corn plants growing before your very eyes. Check out the ancestry of corn!

Explore the Underground World of Nematodes

W-121 Turner Hall

What are nematodes? Why are they important in agriculture? Where do they live? Explore answers to these questions and see nematodes in action at this exhibit.

Explore the Insect World

W-115 Turner Hall

There are many insects sharing our world with us. How good are you at identifying common insects? Come to this exhibit to see how many insects you can identify?

Explore Plant Breeding – From Wild Species to Crops

W-121 Turner Hall

Our crop plants were derived from wild uncultivated plants many thousands of years ago. Come to this exhibit to explore some plant improvements, and see some of the wild ancestors of our crops.

EXPLORACES STEERING COMMITTEE

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Assistant Dean Jason Emmert and Jeremy Robinett, *Advisors*

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Students: Ross Dambacher, Anna Oldani

Agricultural and Consumer Economics

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Students: Chelsi Rhodes and Luke Sullivan

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Students: Sarah Turek, Christine Fox, Taylor Adelizzi and Christina Mazulis

Crop Sciences

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Students: Jessica Frohning and Nina Johnson

Food Science and Human Nutrition

Faculty/Staff: Becky Roach

Students: Melissa Tisoncik and Ashley Weihe

Human and Community Development

Faculty/Staff: Bob Siebrecht

Students: Jessica Clodfelter

Natural Resources and Environmental Sciences

Faculty/Staff: Dianne Noland

Students: Joe Juricic, Nicole Elledge, and Amanda Klinefelter

Agricultural Education

Faculty/Staff: Brandy Biros

Student: Britney Cowan

INFORMATION FOR PARENTS

Financial Aid

Monsanto Room, ACES Library

Learn about the resources available to help you finance your education by attending a presentation on Friday at 1 pm or Saturday at 11 am. From figuring out the FAFSA to applying for student loans, Financial Aid has the answers you need at <http://www.osfa.illinois.edu>. Financial aid booth staffing will be available from 10 am to 2 pm on Saturday.

Office of Undergraduate Admissions

Monsanto Room, ACES Library

Questions about the application and acceptance process? The Office of Undergraduate Admissions has the answers plus a wealth of resources for parents and students. Learn more by attending presentations for prospective students on Friday at 2 pm and Saturday at 12 pm and for admitted students on Friday at 2:30 pm and Saturday at 1 pm, or visit <http://www.admissions.illinois.edu>.

University Housing

Monsanto Room, ACES Library – Friday 11 am

From residence halls to certified housing, uncover your options for living on campus. Each year, over 25% of the entering freshman class chooses to live in one of the many Private Certified Housing facilities. Find out more at the University Housing exhibit or check out <http://www.certified.housing.illinois.edu>.

Housing Units

Incoming students have a wide variety of University and privately owned housing options, each with unique features and benefits. While the College of ACES does not officially endorse any specific housing unit(s), several have enjoyed a long association with the College and its students.

Be sure to check out the housing exhibits in the basement of the ACES Library for more details and application information.

4-H House: cooperative sorority
805 West Ohio St., Urbana
217-344-4784

Alpha Gamma Rho (AGR): fraternity
58 E. Gregory Drive, Champaign
217-337-4240

IlliDell of Alpha Gamma Sigma: fraternity
303 E. Chalmers St., Champaign
217-344-3410

Armory House & Armory Suites
1010 S. Second St., Champaign
217-384-4499

FarmHouse: fraternity
809 W. Pennsylvania Ave., Urbana
217-344-4069

Nabor House: independent fraternity
1002 S. Lincoln Ave., Urbana
217-344-3532

SPECIAL THANKS

The ExplorACES steering committee would like to thank the ACES pACESetter Partners who have contributed both monetary and in-kind gifts to the College of ACES.

ACES pACESetter Partners 2008

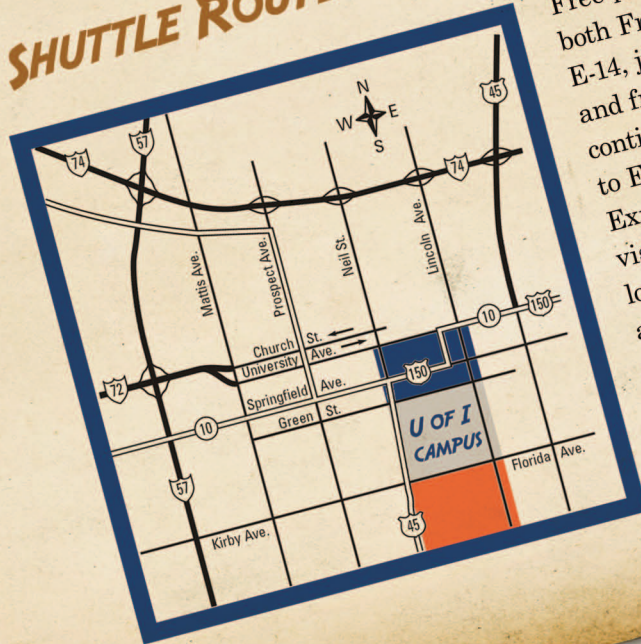
Principals Level
Monsanto
Associates Level
Archer Daniel Midlands Company
CGB Enterprises
Farm Credit Services
Ball Horticultural Company
Illinois Farm Bureau
Shareholders Level
Wyffels Hybrids
Friends Level
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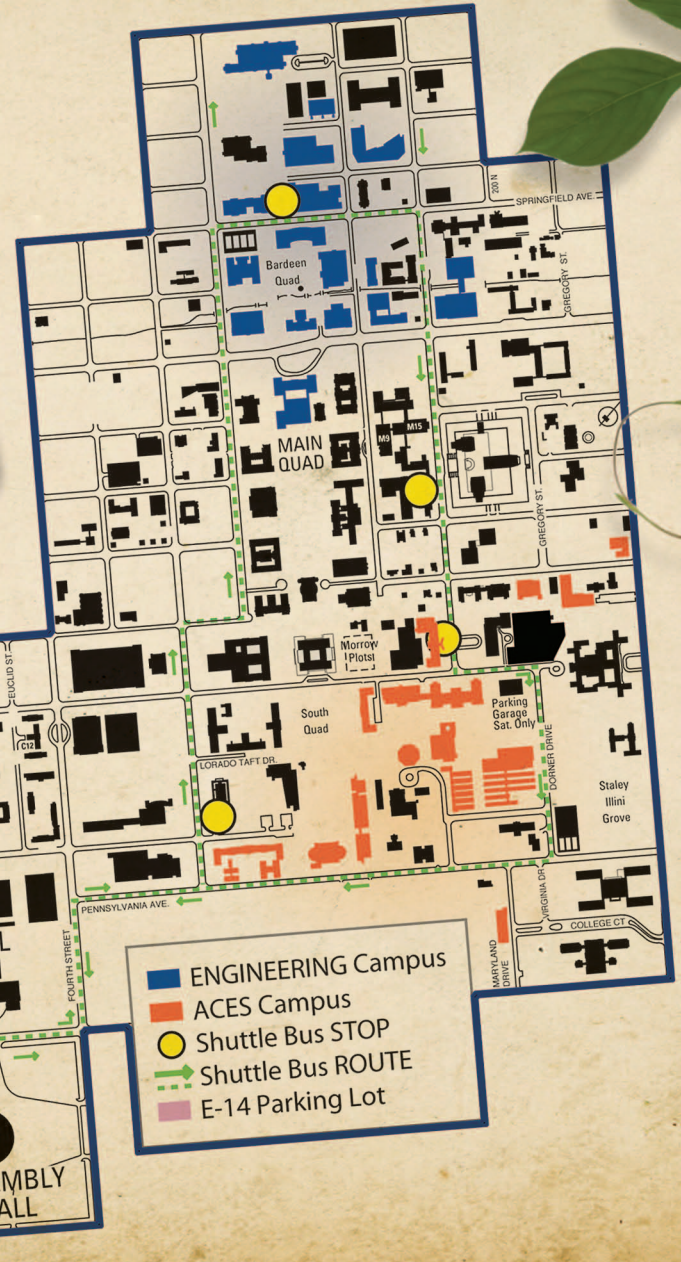
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ACES Information Technology
Computing Services
U of I Facilities and Services
U of I Office of Facilities Management
and Scheduling
RSO Organizations
Faculty and Staff at Doris Kelley
Christopher Family Resiliency Center
Bevier Cafe
Engineering Open House Steering
Committee
ACES Alumni Association
ACES Student Advancement
Committee
ACES Career Services
ACES Student Council

SHUTTLE ROUTE AND PARKING



Free parking will be available on both Friday and Saturday in Lot E-14, just west of the Assembly Hall and free shuttle buses will make a continuous loop from the parking lot to Engineering Open House and ExplorACES. On Saturday only, visitors may use the parking facility located at the corner of Dorner Drive and Gregory Drive. (On Friday parking in that facility is for permit holders only, all others will be ticketed or towed.)



ILLINOIS

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