The World as Seen from Iowa State

Discovery

Engagement

Learning
International education collaboration is vital as transportation, communications, business, finance, agriculture, and other sectors become more globally integrated. Iowa State has responded vigorously to this rapidly changing world by partnering with institutions to engage our faculty, staff, and students in research, service, and study abroad.

For over 50 years, ISU teachers and researchers have worked in a host of nations on projects funded by the U.S. Agency for International Development, the United Nations, the World Bank, foreign governments, and universities. The 93 active agreements with international collaborators enable Iowa State faculty and staff to obtain the knowledge and perspective one gets only by crossing boundaries—cultural and intellectual, as well as geographical.

In addition to their expertise, Iowa State faculty and staff also take their students abroad. Over the last decade, the number of students participating in study abroad programs has tripled: today, more than 1100 students pursue studies or participate in work or internships in foreign countries each year.

International education is a two-way street. In recent years, there has been an increasing trend of international students studying in the U.S. Iowa State University is no exception. As a major land-grant and Carnegie research/doctoral institution, ISU enrolled 2580 students from 119 countries in the fall of 2002.

We invite you to tour the world as seen from Iowa State, where you will meet some of our people who consider the entire world their home. They know that if you want to be world-class, you make the world your classroom!
The scholars of Iowa State take the world as their object, and they take it at first hand—up close and personal. For some, the word “research” may conjure up images of scientists in labs peering through microscopes or scholars in libraries poring over dusty tomes. But Iowa State researchers take the world as their laboratory and the problems of people the world over as their own.

Iowa State enjoys a multitude of platforms from which to launch its research efforts across the globe. In addition to its eight globally-connected colleges, a variety of interdisciplinary centers and institutes provides for collaboration both on-campus and off. The Institute for Physical Research and Technology (IPRT), for example, is comprised of 11 research and technology development centers with more than 1000 faculty, staff, and student employees. IPRT’s mission is to develop new technologies to benefit humankind through interdisciplinary research in science and engineering.

With its traditional strength in materials synthesis and chemistry, the Ames Laboratory conducts innovative research in environmental technology and high-performance computing. The Ames Laboratory, part of the U.S. Department of Energy laboratory system, employs top international researchers and sends innovative research in environmental technology and high-performance computing. The Ames Laboratory, part of the U.S. Department of Energy laboratory system, employs top international researchers and sends

The Plant Sciences Institute is an umbrella organization over a group of centers, each focused on specific areas of the plant sciences. The nine centers that form the institute involve faculty and staff members from 32 departments. The centers are engaged in cutting-edge research in areas ranging from basic plant sciences to designing foods to improve nutrition.

Within these larger umbrellas, Iowa State’s international collaborations are driven by a number of highly focused research centers. Whether the Laurence H. Baker Center for Bioinformatics and Biological Statistics or the Virtual Reality Applications Center (VRAC), these units bring together scholars from across both disciplinary and national boundaries to develop technologies that benefit the world’s people and draw them closer together.

However sophisticated the institutions of research may be on the Iowa State campus, though, their ultimate value is realized only when their people, products, and processes leave Ames to be tested in the greater laboratory of the world. As the following portraits demonstrate, it is a test relished by the researchers of Iowa State.

Beyond Borders:
Rethinking Community in the Global AIDS Crisis

What started as a small study has grown into a five-year, $1.5 million National Institutes of Health project with the potential to help reduce the spread of AIDS in Africa.

Two Iowa State faculty members—Grace Marquis, an assistant professor of food science and human nutrition, and Robert Mazur, an associate professor of sociology—launched the initial study, “Mother-to-Child Transmission of HIV through Breastfeeding: A Pilot Study on Attitudes, Beliefs, and Social Norms in Urban Ghana,” with internal funding. That enabled them successfully to pursue NIH support to look at the biological and social determinants of how HIV affects child nutrition. About one-third of the NIH funds will come directly to Iowa State, with the rest divided among other project collaborators.

According to Marquis, studies of mothers with HIV indicate that if HIV transmission hasn’t occurred at birth, a mother who exclusively breastfeeds decreases the chances of subsequently transmitting HIV to her child dramatically, compared to mothers who mix formula with breastfeeding. The next stage, she says, is to look at the social aspects of this type of HIV transmission, including childcare, alternative feeding methods, and the role community and the extended family play in dealing with children.

Ghana was selected because the prevalence of HIV is still relatively low and childhood malnutrition persists as a major problem. With NIH support, a multidisciplinary team of nutritionists, food scientists, immunologists, anthropologists, and sociologists from Iowa State, the University of Connecticut, and the University of Ghana is conducting the study. The complexity of child nutrition requires that participating scientists look at the issues from multiple perspectives. “We utilize differing methodologies that complement each other,” says Mazur. “Each contributes different research questions that form a comprehensive whole.”

In addition to improving the quality of life for children and families in other countries, the researchers agree, international research offers other benefits. “You appreciate other cultures, other ways of life,” observes Marquis. “You are introduced to excellent scientists and colleagues who broaden your sense of what ‘community’ is. It also opens your mind to see different solutions to problems at home.”

Promote discovery and innovation characterized by preeminent scholarship, including increasingly interdisciplinary and collaborative activities.
Savings Are More than Peanuts

Geographically, China’s Henan Province is about the size of Iowa. And, like Iowa, it’s a region with ample agricultural resources. But that’s where the similarities end: with over 90 million people and a dwindling supply of firewood, Henan Province is in critical need of alternative fuel sources.

Today, a new technology developed at Iowa State known as a thermal gasifier is converting households in Leizhuang Village. This economical innovation resulted from the collaboration of Iowa State, the Henan Academy of Sciences, and China’s Guanghui Machine Manufacturing Company.

Iowa State physics professor Bing-Lin Young and chemical and mechanical engineering professor Robert Brown traveled to Henan to look at environmental programs and the impact of fossil fuel use. They discovered that their Chinese counterparts were eager to explore ways to use agricultural resources to help rural villages. Once the thermal gasification technology is fully developed, it may help many villages enhance their standard of living.

For Brown, who directs Iowa State’s Center for Sustainable Environmental Technologies, China provided an ideal opportunity for a demonstration project. “Because fossil fuels are expensive,” he notes, “biomass gasification is economical, and it’s helped us consider what niche markets might exist in the United States.”

The ‘Point’ of International Dialogue

“Da-feng-men, Tian-men, Tong-tian, Long-hui, Jing-ming,” Shawna Greene writes. “Our instructors used a combination of modern technologies such as PowerPoint, Elmo projection, and slide projection to point out the locations of these acupoints.”

There is perhaps no better illustration of the mingling of the modern with the ancient than this diary entry of an Iowa State student, recounting lessons she learned during a study abroad experience supervised by Dr. Walter Hsu of the Iowa State College of Veterinary Medicine.

“Veterinary acupuncture has been used for thousands of years in China,” Hsu notes, “particularly in horses.” Although a recent practice in the U.S., he adds, the use of acupuncture for small domestic animals is actually more advanced here than in China, due to differing cultural attitudes toward dogs.

Although animal acupuncture is unlikely to replace traditional western veterinary medicine in the U.S., there is increasing interest in the practice as an alternate therapy, Hsu says. The numbers of students applying to the Iowa State study program in China back him up: last year Hsu took 27 students, and had to turn down 20 others.

Plant Sciences Institute

Feeding a Growing World

Research in Iowa State’s Plant Sciences Institute (PSI) has worldwide implications for all aspects of the food cycle. In fact, PSI researchers are developing methods to help feed the world’s growing population, strengthen human health and nutrition, improve crop quality and yields, foster environmental sustainability, and expand the use of plants for bio-based products and energy.

PSI cultivates relationships with researchers across the globe through collaborative programs and international forums and seminars. The institute has partnerships with universities such as Germany’s University of Bielefeld and Universitat Berlin, England’s University of Bristol, the Swiss Institute in Bioinformatics, and Shanghai’s Fudan University.

According to PSI Director Stephen Howell, the benefits of these relationships are enormous. “In an increasingly global society,” Howell says, “it is critical that faculty and students have international perspectives. We believe the best way to gain these are through collaborating with colleagues around the world.”

One example may be found in the PSI’s Center for Plant Transformation and Gene Expression, whose Plant Transformation Facility makes transgenic plants for researchers in the United States and Europe, and is believed to be the world’s largest public sector facility for transgenic maize creation.

Another is PSI’s agreement with Mexico’s International Maize and Wheat Improvement Center (CIMMYT), a research and training center that focuses on improving the profitability, productivity, and sustainability of maize and wheat in developing nations. CIMMYT’s joint research program with Iowa State is helping to conserve the genetic resources of maize, as well as improving its resistance to insects.

PSI and the World Food Prize Institute sponsor the Norman Borlaug Internships for two Iowa State students each year through an eight-week research or lab position at CIMMYT. The first intern, David Schladt, a 2002 graduate in agricultural biochemistry with a Spanish minor, conducted experiments in PSI’s maize transformation lab.

“They have some of the best scientists on the planet,” Schladt says. “And they really do want to help feed the world. It was an honor to work with them and make a small difference.”

In addition to collaborations with foreign partners, PSI’s international profile directly benefits Iowa and America’s agribusinesses. For example, PSI’s Iowa Seed Science Center is home to the USDA’s National Seed Health System, an agency that accredits labs that produce seed for overseas markets. With the U.S. exporting nearly $800 million worth of seed in 2001, ensuring the seed is free of pathogens is vitally important worldwide.
**Virtual Answers to Real-World Questions**

ISU Technology Tackles Urban Woes

Imagine entering Beijing’s Temple of Heaven without ever leaving Iowa. Collaboration between Iowa State’s Virtual Reality Applications Center and Beijing Polytechnic University (BPU) is working to make that happen. In addition to being just plain fun, it will also help urban planners design neighborhoods and work with various building and zoning codes.

ISU Professor of Architecture Chiu-Shui Chan leads the effort, funded by the U.S. National Science Foundation and the Natural Science Foundation of China. The project encompasses computer science, urban planning, and architecture. Iowa State’s contribution also includes virtual reality expertise, while BPU receives input from the Beijing Urban Planning Commission.

The researchers are designing a tool that creates a virtual model of Beijing focusing on the Temple of Heaven, the Xidan Business District, and the Inner City. When complete, users will navigate this complex city, select property lots, determine planning issues, input building code data, visualize three-dimensional graphic guides, and animate the surroundings to measure potential impacts caused by context.

“This research will serve and educate professional practitioners on both sides of the Pacific,” observes Chan.

International Student Enrollment Top 10*

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<th>Country</th>
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<tr>
<td>China, People’s Republic</td>
<td>705</td>
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<td>India</td>
<td>680</td>
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<td>Indonesia</td>
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<td>Japan</td>
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<td>Malaysia</td>
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*as of Fall 2002

Virtual Temple Offers Unique Experience

Associate Professors Carolina Cruz-Neira of Industrial and Manufacturing Systems Engineering and Whitney Sanford of the Department of Philosophy and Religious Studies are using Iowa State’s C6 virtual reality chamber to create a model of the Hindu temple of Radharaman in Vrindavan, Uttar Pradesh, India. Complete with simulations of ceremonies that include virtual humans playing different roles.

Part of the emerging field of “computational humanities,” projects such as the virtual Hindu temple enable participants to ‘travel’ in time and space to participate actively in the story being told, experiencing events firsthand and interacting with characters in the virtual environment.

The Spanish-born Cruz-Neira thinks Americans are good candidates for virtual religious experiences. “It’s a struggle for students raised in the U.S. to perceive what it means to have an ancient culture as part of your daily life,” she says. “As a child, I would jump on Roman ruins 2000 years old. That was my playground.”

There are challenges. “On the technical side,” Cruz-Neira says, “we’re investigating control algorithms to create virtual humans to assume roles in the ritual, as well as methods that allow users to explore the environment and interact with the virtual characters.”

Using an illusionary environment to recreate a highly sensual experience may strike some as ironic. Yet, according to Sanford, what is illusionary is how religious practice often relies on language rather than ritual and experience.

“We tend to talk about religion in textual terms,” Sanford notes. “But think of the Cathedral of Notre Dame in Paris: the architecture, the stained glass—religious experience is embodied in structures.”

The project, however, does not end at the temple doors. “The goal,” Sanford says, “is to create a library of cultural and religious experiences that are fully immersive and interactive.”

Hailed as the premier facility for virtual reality technologies when it opened in 2000, Iowa State’s C6 (right) is a unique projection-based, immersive environment that uses wireless systems to completely envelop users with three-dimensional graphics and sound. The C6 is the focal point of the Virtual Reality Applications Center (VRAC), an interdisciplinary research group that is expanding and enhancing the interface of humans with computers.

Whether taking in a Beijing cityscape or walking through a Hindu temple, C6 users share virtual worlds, as well as experience perspectives unique to their locations and vantage points. “It is a powerful tool,” says Carolina Cruz-Neira, VRAC associate director, “because it literally puts the user in the middle of the action.”
Between Paradise and Poverty

"It's clearly a land of paradise and poverty," remarked one of JaneAnn Stout's Families Extension staffers after visiting Mexico for the first time, reflecting on what she termed "the tremendous chasm between the rich and the poor."

If you think the university’s extension to families extends no further than recipes, household budgeting, and gardening tips, think again: along with the disappearance of small family farms, the influx of Mexican immigrants to Iowa is one of the most profound changes to affect the state the past 20 years.

Understanding the reality those Mexican families face is the reason Stout, an associate dean in the College of Family and Consumer Sciences, developed the Mexico in-service program for Iowa State's Families Extension staff. "Iowa's demographics are changing," Stout observes, "and our staff work with communities where that change is occurring."

Yet prior to the in-service program, few of Stout’s workers had significant international experience or the Spanish language skills to serve these new Iowans. Recognizing the need, staff members researched and wrote grants to cover their expenses to Mexico.

Twenty Families Extension staff members made the trip in 2003, and another 40 are slated to travel the next two years. As a result of their visit, thirty staffers are working to improve their Spanish language skills to better serve Iowa's Spanish-speaking residents.

Over the past decade, ATA has contributed considerable resources to help local artisans. Assistance has ranged from helping to refine products to developing business skills to building links to U.S. markets. Littrell notes that, in order to avoid overdependence on a single trading network, ATA also helps artisans diversify into regional, tourist, or export markets.

Professor Mary Littrell seeks to empower local artisans by helping them succeed in generating income to support their families' basic needs.

Mary Littrell, Distinguished Professor of Textiles and Clothing, has worked extensively with artisans throughout the world and now leads a $240,000 Ford Foundation study to determine what impact the nonprofit group Aid to Artisans (ATA) has had on the sustainability of artisan projects.

Engage the World on Its Own Terms

Put simply, “engagement” expresses the responsibility of Iowa State faculty and staff to partner and share expertise to make a real difference in people’s lives, whether at home or abroad. Indeed, at times a given project necessarily crosses state and international boundaries, such as the effort of Professor JaneAnn Stout and her Families Extension staff to understand Mexico in order to better serve Iowa’s newest residents.

Iowa State launched its formal international efforts over half a century ago with a corn project in Guatemala. Since then, the university has been involved in hundreds of international projects based on the needs of communities throughout the world. We’ve established international programs through the Center for International Agricultural Finance, which trains business professionals from developing nations. The Small Business Development Center offers training for Iowa businesses expanding internationally, and Iowa State Cooperative Extension Service has multiple relationships in China.

Iowa State’s engagement with the world embraces the contributions of individuals as well as institutions. Today Iowa State alumni live in 140 countries. And ISU ranks among the top 5% of colleges and universities in the nation in producing volunteers for the Peace Corps, which offers humanitarian aid and education in 87 countries.

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The work of skilled artisans is a primary source of income in the developing world, second only to agriculture. Ensuring that this resource remains viable is critical not only because it helps families meet their basic needs, but also because it empowers women by providing the assets and self-confidence needed to take control of their own lives.

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Littrell is visiting Central Asian countries for the study as well as interviewing artisans in Ghana, Peru, Honduras, Hungary, and Russia. Her analysis will help determine “best practices” for helping these artisans succeed, culminating in a book that highlights each country as a case study.

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It’s All About Connections

With grants from the U.S. State Department and UNESCO, Iowa State’s International Women in Science & Engineering (IWISE) program has supported professional advancement for more than 1000 mid-career women scientists and engineers in over 25 developing countries and emerging democracies since 1996. Directed by Professor of Public Administration Ardith Maney and program manager Mary Ann Evans, IWISE has developed a range of partnerships between ISU faculty and universities and organizations from across the globe. The result is an ongoing connection between Iowa and places such as Ukraine, El Salvador, Kenya, South Africa, and Bulgaria.

“It’s a connection with women who have similar jobs, but in different contexts,” observes Maney. These collaborations, she says, offer perspectives and solutions that improve educational and social environments in the participants’ home countries. It’s a connection that informs Iowa State classrooms as well, helping Maney to illustrate global conditions in her lectures.

Maney also facilitates communication across international borders. “I’ve been able to link students through e-mail with people I’ve met,” she says. “Through e-mail, the students are able to find out what's going on in a place besides just reading about it or watching the news.”

From Mind to Market:
Teaching Entrepreneurship Around the World

“Entrepreneurship is a way of thinking, a way of life associated with the ability to control one’s own life,” says Professor of Finance Howard Van Auken.

In Mexico, Russia, the Czech Republic, Slovakia, and Ukraine, Van Auken has helped people use their skills to pursue their dreams of being independent, of being their own bosses.

The first challenge, notes Van Auken, is helping people see opportunities. “You can be so ingrained in what you do that it’s difficult to have new ideas,” he says. “I try to help people break the pattern, to look at something differently.”

Next comes teaching about the entrepreneurial process and developing the skills needed to move ideas from minds to markets. Van Auken’s service as a visiting professor has given him a first-hand view of how culture impacts the business environment, and he incorporates this into his research and teaching.

“Understanding the impact of culture on the acquisition of capital is essential,” Van Auken stresses. He also leads a study abroad program giving students a perspective on how culture impacts the economic system in Mexico.

As a land-grant institution, Iowa State takes to heart its responsibility to foster human development and understanding in the areas of learning, engagement, and discovery. Of these, learning is primary; the first mission of any educational institution is to help people realize their full potential.

We believe students may better realize their potential by understanding what it means to be part of the larger human family. Therefore, for an added dimension to their primary studies, all ISU undergraduates may choose among hundreds of courses to fulfill a three-credit requirement in International Perspectives.

Students also may choose a minor or second major in International Studies, including a topical focus in areas such as Global Environmental Issues, Social Change and Economic Development, International Business and Trade, and Women and Development.

The Department of Foreign Languages and Literatures offers majors and minors in Russian Studies, French, German, and Spanish; minors in Latin, Portuguese, and Chinese; and classes in Italian and Classical Greek. A number of international students study in the Intensive English and Orientation Program (IEOP), which offers full-time instruction and orientation to American culture.

Yet as beneficial as exposure to different cultures and languages may be for students in residence at Iowa State, they benefit greatly from direct experience in a foreign country. Students from all majors and minors are encouraged to take advantage of the university’s study abroad opportunities. In programs ranging from three weeks to a full semester or longer, Iowa State students earn credit while refining language skills, studying foreign social and political systems, or discovering the diversity of the world’s ecosystems.

For some the foreign experience may begin “virtually” by interacting with peers and teachers from universities abroad through Professor Niki Davis’s ILET project. From there they may be inspired to extend their global experience in a variety of directions. From pondering the glories of the Renaissance in Florence to understanding the need for sustainable agricultural practices in Mexico, students at Iowa State go out to the world—and bring the world back home.
Two Powerhouse Programs Make Global Connections for Electrical Engineers

Professor Jim McCalley of the Department of Electrical and Computer Engineering has seen the benefits of international exchanges through his involvement with a program that partners Iowa State with Portugal’s Instituto de Engenharia de Sistemas e Computadores do Porto (INESC).

It’s a win-win situation, says McCalley: INESC has one of the world’s best programs in power systems engineering and so does Iowa State. The exchange presents a tremendous opportunity for students to interact with another culture and to make connections. “You multiply by two the number of professional contacts you make,” McCalley observes, “and that can be useful as you go through your career.”

You don’t need to see Ana Margarida Quelhas Alves de Freitas on the benefits of international study. Intending originally to get her master’s degree from Iowa State, Freitas said she was impressed with the opportunity to study in the U.S. when she decided to stay for her Ph.D. “The biggest incentive I had,” she declares, “was the challenge of a new experience.”

Her colleagues in Portugal, she says, are used to traveling around Europe, experiencing different cultures, different languages—it’s not a big issue for them. “I’d be very happy if I could open some American students’ minds to international study.” she adds.

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When Carl Bleyle visits with students about the “Tones and Bridges” program, he often speaks with them about the importance of building bridges for the future. “Bridges—they could do everything under the sun,” he tells them. “They could do anything under the sun.”

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The six-credit, five-week program connects students to the people, culture, and environment of a developing nation, according to Donna Cowan, program director and professor in the College of Family and Consumer Sciences.

Students enroll in wildlife biology or creative arts, Kiswahili language study, and a culture class which includes field study at tea and flower farms, markets, and museums, and interaction with students and community members through cultural programs, home visits, and safaris. A special feature is service learning benefiting the Nakuru community. Participants do everything from planting seedlings to building cowsheds at rural schools to assisting street children’s programs.

Kenya has over 45 tribes living and working harmoniously with each other and with people in five border countries. From the very poor to the very rich, students see the full spectrum of social contrasts. “It was truly an eye-opening, life-changing experience,” says participant Sophia Magill.

“Each time I go,” Cowan says, “I learn how important it is for countries to have contact with each other, and how this kind of experience contributes to peace and understanding.”

### Lessons Toward a Sustainable Agriculture

Associate Professor of Agronomy Ricardo Salvador is a highly political person—but he knows when to put politics aside. “One of our charges is to make sure students understand the conflicts people have worldwide through a rational process,” he says, “not just provide fodder for activists.”

Acting on this principle, Salvador doesn’t preach to students but rather lets them learn for themselves about hunger, food production, and the sustainability of the agricultural model that sustains them as Americans. For several years he has accompanied groups to Cuba, Costa Rica, Panama, and his native Mexico to see how much of the world feeds itself.

Salvador acknowledges that it hasn’t always been possible to ask the sorts of questions travel abroad poses for his students. “When I started graduate school in 1980,” he recalls, “‘sustainable agriculture’ wasn’t considered a proper academic pursuit.”

But rising world hunger and environmental degradation have changed the equation, he says, to where a global appreciation of food production issues assumes a special urgency for students at Iowa State. “If there’s any place that requires people to critically examine the foundations of sustainability,” Salvador insists, “this is it—is this the belly of the beast in terms of unsustainable agriculture.”

Students come from Asia, Africa, and Latin America to study with their American counterparts in Iowa State’s new graduate program in Sustainable Agriculture. Courses leading to the M.S. and Ph.D. are taught by interdisciplinary teams and emphasize experiential techniques.
Council on International Programs
The Council on International Programs (CIP), reporting to the Provost, is dedicated to improving and expanding the international profile of Iowa State University and its faculty, staff, and students.

The council has members from each of the university’s colleges, the Parks Library, Faculty Senate, offices of the Vice Provost for Extension, Vice Provost for Research, Vice Provost for Undergraduate Programs, and International Education Services. Together with faculty and staff from the colleges, centers, institutes, and central administration, CIP members are responsible for working collaboratively to internationalize learning, engagement, and discovery at Iowa State, key components of the university’s 2000-2005 Strategic Plan.

Each year the university awards more than $570,000 to students participating in study abroad programs. In addition, the CIP and its affiliates administer a variety of grants to support foreign travel and program development for faculty and research staff. For more information, visit the grants page on the CIP Website at www.public.iastate.edu/~cipGrants/Grant.html.

Study Abroad and Exchange Advisory Committee
The Study Abroad and Exchange Advisory Committee (SAEAC) reports to the Vice Provost for Undergraduate Programs, and includes representatives from the colleges and the Study Abroad Center (SAC). Cooperation among the SAEAC, SAC, faculty, and staff is key to the success of the university’s study abroad programs.

The SAEAC serves on behalf of the ISU Faculty Curriculum Committee to approve university study abroad programs. The SAEAC awards funds to faculty and staff for site visits for new study abroad programs, and partially supports travel expenses for leaders of group programs.

ISU offers over 270 study abroad programs, with thousands more available through other institutions.

International Education Services
International Education Services (IES) provides services and programs for international students, faculty, and staff, and for Americans studying or working abroad. Staff advise international guests on university procedures, U.S. visa regulations, personal concerns, and community resources. The IES Culture Corps, Friendships International (host families), Conversational English Program, International Student Council, and 25 international student organizations bring internationals and Americans together for mutual learning.

The Study Abroad Center provides administrative support for students seeking to study or work abroad and for faculty and staff program leaders through individual advising, workshops, information sessions, and comprehensive handbooks. The SAC awards study abroad scholarships and serves as a resource for current information on health, safety, travel, and cultural issues. The SAC has a fine library of more than 1000 volumes. Persons interested in developing new study abroad programs are encouraged to contact SAC staff.

ISU’s Nathan Swanson encourages fellow student Eric Rowley in jumping contest with young Maasai warriors.

Ancient Roman aqueduct provides architecture students an opportunity to hone their drawing skills.

Graduating international students “shake” things up at spring alumni reception.

Combined with the Study Abroad Center, International Education Services supports the university’s internationalization efforts through programs, services, and resources that make study abroad and global engagement available and accessible for all students, faculty, and staff.

To learn more about international programs at Iowa State, please contact International Education Services or the individual colleges listed on the back of this publication.

Partnership for International Programs

Iowa State University is dedicated to educating students who are informed and engaged with the world beyond our borders.
For more information about college international programs, please contact the offices below:

**College of Agriculture**
Global Agriculture Programs  
515-294-8454  
www.ag.iastate.edu/global/

**College of Business**
Office of the Dean  
515-294-2422  
www.bus.iastate.edu/undergrad/studyabroad.asp

**College of Design**
Office of the Dean  
515-294-7427  
www.design.iastate.edu/

**College of Education**
International Programs  
515-294-1010  
www.educ.iastate.edu/program/int/  
International Leadership for Education Technology (ILET)  
www.public.iastate.edu/~ilet/

**College of Engineering**
International Programs  
515-294-5990  
www.eng.iastate.edu/intlprogs/

**College of Family and Consumer Sciences**
Office of the Dean  
515-294-5980  
www.fcs.iastate.edu/student/travel.htm  
Families Extension programs  
www.extension.iastate.edu/families/

**College of Liberal Arts and Sciences**
International Programs  
515-294-7740  
www.las.iastate.edu/students/international/

**College of Veterinary Medicine**
International Programs  
515-294-8459  
www.vetmed.iastate.edu/academics/international/overview.html