That’s not because we’re good at patting ourselves on the back. (After all, we value and practice humility in Indiana.) The truth is that our students, faculty and staff earn this lofty recognition because we excel at pushing ourselves and showcasing the idealism, curiosity, innovation, pride and community you’ll only find among Boilermakers.

Purdue Agriculture is a supportive, collaborative atmosphere for intellectual growth, professional strength and lifelong friendships. Success is something we all share. Our globally renowned, award-winning faculty work alongside our students. We offer more than 30 majors—the most of any top agricultural college in the nation—to help students find their perfect fit. Guided by talented faculty and dedicated staff, they graduate ready to change the future.

For more than a century, students and their families have known our reputation for a great education of tremendous value to our state, nation and world. More than 75% of our students hail from Indiana. Underrepresented minority enrollment is up 32% since 2012. Nearly 60% of our undergraduates are women. We’ve widened pathways for transfer students to build on their experiences. University-wide, our culture grows even more vibrant with students from across the country and nearly 200 nations.

Purdue Agriculture is welcoming more undergraduates than it has in nearly 40 years, and their representation of agriculture’s future is more diverse than ever.

A GREAT TIME for Purdue Agriculture

No need to bury the lead: Purdue Agriculture remains among the world’s 10 best agricultural colleges.

Purdue Agriculture is a supportive, collaborative atmosphere for intellectual growth, professional strength and lifelong friendships.
We’re also graduating more students in four years, with less debt and outstanding job prospects. Within a year, 97% of 2018 graduates had started their career or continued their education. Employers recognize the power of a Purdue Agriculture degree. More than 150 of them attend our annual Fall Career Fair—touted as the nation’s second-largest—to meet our students and witness firsthand their skills, confidence and accomplishments.

For all of Purdue Agriculture’s many achievements, the greatest is our daily opportunity for students, faculty and staff to make the world better for all of us. Take a look for yourself and see why, as I love to say, now is a great time to be part of Purdue Agriculture!

Marcos Fernandez

Learn more about our departments on pages 14-39!
#9 COLLEGE OF AGRICULTURE in the world

* Ranking from 2018 Quacquarelli Symonds (QS) Intelligence Unit
Each year, approximately 2,700 students make up part of the Purdue College of Agriculture family. For three consecutive years, our college has increased its enrollment numbers for students who hail from around the globe. However, for decades more than 75% of students in the college have come from Indiana.

At Purdue, students find both challenges and support that prepare them to step into roles in business, industry, government, or wherever life takes them. They begin careers that can take them around the world.

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<th></th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
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<tbody>
<tr>
<td>Total Enrolled</td>
<td>2,711</td>
<td>2,671</td>
<td>2,736</td>
<td>2,782</td>
<td>2,803</td>
</tr>
<tr>
<td>Resident</td>
<td>2,085</td>
<td>2,079</td>
<td>2,094</td>
<td>2,123</td>
<td>2,118</td>
</tr>
<tr>
<td>Non-resident</td>
<td>626</td>
<td>592</td>
<td>642</td>
<td>659</td>
<td>685</td>
</tr>
</tbody>
</table>

When Joseph King (BS ‘18, food science) was growing up, food was more than just sustenance. It was also culture, art, history and family all rolled together. “My mother and I bonded over cooking,” he says. Inspired by his mother’s recipes, Joseph studied culinary arts in high school in Jeffersonville, Indiana, before becoming a food science major at Purdue. He’s passionate about creating nutritious foods through product development.

Joseph led a team of students who developed a popcorn snack as a fundraiser for Minorities in Agriculture, Natural Resources, and Related Sciences (MANRRS), a student organization that supports professional development for its members. The proceeds benefit MANRRS activities and a local food bank. “I applied the same food science concepts I learned in class and in the lab to create the snack,” he says. “The experience helped me better understand the hurdles I could face someday in the industry. I also gained more confidence in my ability to create.”
To be admitted, a Purdue student must have at least:

- Math — 8 semesters
- English — 8 semesters
- Lab science — 6 semesters (for engineering, nursing, pharmacy, and veterinary technology, 2 semesters must be chemistry; nursing also requires 2 semesters of biology)
- Social studies — 6 semesters
- Foreign language — 4 semesters

For the College of Agriculture, students should take as much advanced coursework as possible in math and science (pre-calculus, AP/IB calculus, AP/IB biology, AP/IB chemistry, and AP/IB physics).

2018 Purdue University freshman class profile (about 8,300 students)

- Middle 50% high school GPA range: 3.5–3.9
- Middle 50% SAT range: 1190–1390 (1600 scale)
- Middle 50% ACT composite range: 29–32

November 1 is the application deadline to qualify for scholarships and certain programs.
World Food Prize Youth Institute

Since 2011, Purdue Agriculture has welcomed Indiana high school students and teachers to become global hunger fighters through a free, two-day event. After writing a research paper regarding global challenges in a foreign country, five students from each school are invited to present their research to Purdue University faculty and staff experts. The event allows students and teachers to network with each other, interact with Purdue Agriculture academic departments and learn from experts in agriculture and other disciplines about global food security challenges and solutions.

1,100+ STUDENTS WROTE THE RESEARCH PAPER IN 2018

90+ INDIANA TEACHER AND MENTOR PARTICIPANTS 2012–2018

12 ACADEMIC DEPARTMENTS / PROGRAMS PARTICIPATED IN THE LAST 2 YEARS

Pre-College Molecular Agriculture Summer Institute (Pre-College MASI)

Pre-College MASI is a one-week residential program allowing participants to grow their interests in STEM areas and experience Purdue’s campus life. To demonstrate the research and discovery in agriculture and science, Purdue Agriculture faculty serve as research mentors of hands-on experiments in their labs throughout the week. The program also includes visits to campus research facilities, industry tours, and sessions and activities highlighting the land-grant mission of Purdue University.
Excitement is building around opportunities in agriculture!

In 2018, recruitment and retention efforts by faculty, staff, students and alumni gave us greater visibility at student-centered events and helped us recruit more new students to the College of Agriculture. This increased the number of applications and admits over the past three years and improved the success of and retention of current students—which, in turn, led undergraduate enrollments in 2018 to the highest they’ve been in 40 years!

New Student Applications, Admitted and Enrollments, 2013-2018

2,874 UNDERGRADUATE STUDENTS IN 2018

2,803 full-time Purdue Agriculture undergraduates—and an additional 71 Pathway to Purdue Agriculture students—co-enrolled in the college’s programs. That’s a total of 2,874 undergraduates studying and preparing for rewarding careers in agriculture and related fields.
TRANSFERS encouraged

No matter the path, students are welcome in the College of Agriculture.

- Vincennes University (8% of transfer enrollment in fall 2018), a long-standing transfer program
- Ivy Tech Community College (all campuses)
- China Agricultural University
- Purdue Regional Campuses (including IUPUI)
- Illinois partner schools (Black Hawk College East, Illinois Central College, Lake Land College, Joliet Junior College and more)

13% OF STUDENTS = TRANSFERS

Whether through Pathway to Purdue Agriculture or a traditional program, transfer students are vital to the College of Agriculture. One in eight College of Agriculture students is a transfer student.

45 NEW STUDENTS IN PATHWAY TO PURDUE, FALL 2018

Now in its ninth year, Pathway to Purdue Agriculture is a co-enrollment transfer program between the College of Agriculture and Ivy Tech Community College—Lafayette. In 2017, the graduating class included 19 students. 2018 was the first year a Living / Learning Community specifically for Pathway to Purdue Agriculture students was offered, and 29 students (64%) participated.

In the Pathway to Purdue Agriculture program, Samantha Evens (BS ’20, agribusiness) found an affordable way to attend college and to get academic help in subjects in which she struggles. “I looked at other schools, but I wanted to go to Purdue,” says the agribusiness major from Lafayette, Indiana. Pathway, a partnership between the College of Agriculture and Ivy Tech Community College—Lafayette, provided the way to meet her goal. “Pathway groups freshmen together so we had the same schedules and studied together; now we’re a close-knit group,” she says. “My best friends are Pathway students.” Samantha takes advantage of benefits offered at each institution, from attending Ivy Tech’s tutoring sessions to joining Purdue’s agriculture-related clubs. Another great feature of Pathway is advisors at both schools. “They are always there when you need them,” Samantha says. “If you’re struggling, you can go to either one of them, and they will work with you on it.”
In the spring of 2013, the College of Agriculture launched a new recruitment campaign and website with the theme EXPERIENCE Purdue Agriculture. The campaign included mobile-friendly content, social media, video, print, email, expanded outreach to transfer students, focused outreach in the plant sciences and more. Before the campaign, the recruitment website had a great deal of local and repeat traffic, and a majority of students got to that site through the Purdue Admissions website. That changed. Now, more students reach our recruitment site through search engines, social media and direct links from recruitment materials.
**SUCCESS expected**

Purdue University and the College of Agriculture rank high nationwide for graduate employability and preparation.

**Table 1. Post-graduation activities of May 2014–18 graduates**

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Graduates</td>
<td>501</td>
<td>512</td>
<td>487</td>
<td>502</td>
<td>545</td>
</tr>
<tr>
<td>Percent Reporting Activities</td>
<td>93%</td>
<td>98%</td>
<td>99%</td>
<td>98%</td>
<td>98%</td>
</tr>
</tbody>
</table>

**Post-graduation Activities**

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employed</td>
<td>69%</td>
<td>71%</td>
<td>73%</td>
<td>72%</td>
<td>69%</td>
</tr>
<tr>
<td>Employed: Internships</td>
<td>5%</td>
<td>3%</td>
<td>2%</td>
<td>1%</td>
<td>1%</td>
</tr>
<tr>
<td>Continuing Education</td>
<td>22%</td>
<td>21%</td>
<td>20%</td>
<td>24%</td>
<td>27%</td>
</tr>
<tr>
<td>Not Seeking Employment</td>
<td>2%</td>
<td>1%</td>
<td>1%</td>
<td>1%</td>
<td>1%</td>
</tr>
<tr>
<td>Seeking Employment</td>
<td>2%</td>
<td>2%</td>
<td>3%</td>
<td>1%</td>
<td>2%</td>
</tr>
<tr>
<td>Seeking Further Education</td>
<td>0%</td>
<td>2%</td>
<td>1%</td>
<td>1%</td>
<td>0%</td>
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</tbody>
</table>

**Table 2. Educational program enrollment of May 2014–18 graduates**

<table>
<thead>
<tr>
<th></th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
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</thead>
<tbody>
<tr>
<td>Number in Graduate Schools</td>
<td>13%</td>
<td>17%</td>
<td>11.8%</td>
<td>12%</td>
<td>17%</td>
</tr>
<tr>
<td>Professional Schools</td>
<td>8%</td>
<td>3%</td>
<td>8%</td>
<td>11%</td>
<td>9%</td>
</tr>
<tr>
<td>Undergraduate Programs</td>
<td>1%</td>
<td>1%</td>
<td>0.2%</td>
<td>1%</td>
<td>1%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>22%</td>
<td>21%</td>
<td>20%</td>
<td>24%</td>
<td>27%</td>
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</tbody>
</table>

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Data provided by Purdue University College of Agriculture May 2018 graduates. The Purdue University Center for Career Opportunities provided the postgraduate survey.

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**545 STUDENTS GRADUATED IN MAY 2018**

Purdue University’s College of Agriculture awarded bachelor’s degrees to 545 students in May 2018. Eight students earned two degrees.

**97% EMPLOYED OR CONTINUING THEIR EDUCATION**

Ninety-seven percent of reporting 2018 graduates said they were employed or continuing their education as of January 2019. Of those employed, 207 graduates work in Indiana. Of the 146 students continuing their education, 66 are enrolled in Indiana schools.

**$45,570 BEGINNING AVERAGE SALARY**
### Baccalaureate (BS) Degrees Granted by Academic Unit (2008–2018)

<table>
<thead>
<tr>
<th>Year</th>
<th>ABE</th>
<th>AGEC</th>
<th>AGRY</th>
<th>ANSC</th>
<th>BCHM</th>
<th>BTNY</th>
<th>ENTM</th>
<th>FNR</th>
<th>FS</th>
<th>HLA</th>
<th>INAG</th>
<th>NRES</th>
<th>ASEC</th>
<th>INAG</th>
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<tbody>
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<td>2008-09</td>
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<td>2009-10</td>
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<td>2010-11</td>
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<tr>
<td>2011-12</td>
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<tr>
<td>2012-13</td>
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<td>2013-14</td>
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<td>2014-15</td>
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<td>2015-16</td>
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<td>2016-17</td>
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<td>2017-18</td>
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</tbody>
</table>

**TOTAL BS (4 yr) degrees awarded**

- ABE – Agricultural and Biological Engineering
- AGEC – Agricultural Economics
- AGRY – Agronomy
- ANSC – Animal Sciences
- BCHM – Biochemistry
- BTNY – Botany and Plant Pathology
- ENTM – Entomology
- FNR – Forestry and Natural Resources
- FS – Food Science
- HLA – Horticulture and Landscape Architecture
- NRES – Natural Resources and Environmental Science
- ASEC – Agricultural Sciences Education & Communication
- INAG – Interdisciplinary Agriculture
By applying principles of science and engineering to real-world issues, you can help create positive solutions for grand, global challenges that involve food, energy, water, the environment and health.

We’re honored to be named the #1 undergraduate Agricultural & Biological Engineering program in the nation by U.S. News & World Report—a distinction we previously earned in eight consecutive years. Our graduate program also has been #1 for 10 of the last 11 years.

Our department is situated in both the College of Agriculture and the College of Engineering, helping you develop deep, meaningful ties with both outstanding colleges.

With small classes, hands-on experience, active alumni engagement, study abroad options and leadership development opportunities, you’ll be among the best of the best in the next generation of agricultural engineers, biological engineers and agricultural systems managers.

$150K
Annual undergraduate scholarship total

100%
Job placement

#1
Undergraduate program rank, U.S. News & World Report

The ABE department is completely remodeling the three-story portion of its building and removing its entire southern portion—to be replaced with 125,000 square feet of state-of-the-art laboratory and classroom space.

Incoming students will be part of this historic event as the program concurrently celebrates its 100th year with the spring 2021 building dedication.
The engineering industry has a strong demand for engineers with backgrounds in biological-engineering research, and many of Purdue’s biological engineers continue to graduate school with 99% funding for tuition and a salary. Those areas of continuing study include:

- Biological Engineering
- Bio-Environmental Engineering
- Biotechnology, Computer Vision
- Food Process Engineering
- Food Safety
- Metabolic Engineering
- Post-Harvest Engineering
- Sensor Development

With our **Agricultural Systems Management major**, you can help people better understand technology and pursue careers in:

- Machinery (John Deere, CNH, Caterpillar)
- Precision or digital agriculture (Trimble, Raven Industries)
- Grain industry (ADM, Cargill, Monsanto)

Our **Biological Engineering major** prepares you for some of the greatest challenges of the next 50 years in such fields as:

- Pharmaceuticals (Eli Lilly, Merck)
- Food production (Kraft, General Mills, PepsiCo)
- Biotechnology (Ginkgo Bioworks, Genentech)
- Grain processing (ADM, Cargill, Monsanto)

In our **Environmental & Natural Resources Engineering major**, you’ll learn how to reduce ecosystem pollution through sustainable solutions and prepare for careers with:

- Government agencies (Environmental Protection Agency, Department of Natural Resources)
- Consulting firms (Tetra Tech, JFNew, CB Burke Engineering)
- Agriculture industries (Rain Bird, Caterpillar, Eaton)

Our **Agricultural Engineering (Machine Systems Engineering) major** will equip you to improve future technologies for energy, food and water, and link you to such industries as:

- Agricultural machinery (John Deere, CNH, AGCO)
- Construction, forestry and energy (Caterpillar, Vermeer, Cummins)
- Hydraulics (Parker Hannifin, Eaton)
- Precision or digital agriculture (Trimble, Raven Industries, John Deere, CNH)
Build your expertise and influence in numerous aspects of agribusiness and economics with Purdue Agricultural Economics—from sales, finance and strategy to commodity marketing, international development and trade, and environmental and resource management.

Ranked fourth in the world by the Center for World University Rankings, we are home to such outstanding centers as the Center for Food and Agricultural Business and Center for Commercial Agriculture.

Working in tandem with our globally renowned faculty, these centers help keep students at the forefront of real-world trends in food, agribusiness and agricultural production.

Beyond the classroom, you can capitalize on numerous transformational experiences. These include building lifelong skills and connections at national leadership conferences like Agriculture Future of America, developing leadership skills in Agribusiness Club or Ag Econ Envoys, and capitalizing on opportunities to compete in the Agricultural & Applied Economics Quiz Bowl or on the National Agricultural Marketing Association Team.

You’ll also meet one-on-one with award-winning advisors—discussing such options as academic minors, dual majors or certificates in leadership and entrepreneurship to achieve your goals.
majors & careers

MAJORS

♦ Agribusiness
♦ Agricultural Economics
♦ Farm Management
♦ Sales & Marketing

Our graduates find they can often choose from a wide variety of career options, including:

♦ Account / branch manager
♦ Agriculture loan officer
♦ Brand marketer / marketing representative
♦ Commodity merchandising
♦ Credit analyst
♦ Customer service representative
♦ Operations manager
♦ Professional farm manager
♦ Sales representative
♦ Supply chain manager

98% Job placement
$47,400 Average salary

LEARN MORE

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(765) 494-4201
/PurdueAgriculturalEconomics
@PurdueAgEcon
Do you have a passion for agriculture and for working with people?

We offer opportunities and skills in two majors: Agricultural Education and Agricultural Communication.

An Agricultural Education degree prepares you to lead at the front of classrooms. High demand for agricultural science and business teachers in Indiana and nationwide means high job placement.

Ever wonder who designed that seed hybrid marketing campaign? Or who produced the cool educational video you saw in science class? An Agricultural Communication degree readies you to take the reins on communications and public relations for prestigious companies both inside and outside the agriculture industry.

That’s just a snapshot of the specialized training you’ll receive in Agricultural Sciences Education & Communication.

In both of our majors, students gain professional opportunities that can further future success.

Agricultural Education students are encouraged to join the Purdue University Chapter of the Indiana Association of Agricultural Educators (IAAE) to plan chapter activities, build relationships and gain professional development.

Many of our Agricultural Communication students acquire real-world, hands-on experience—and get a start on crucial career networking—through communication internships with top firms, companies and organizations.
Our Agricultural Education major provides the experience to match your own personal interests and career aspirations to a curriculum, as well as a professional Indiana teaching license.

- Adult training educator
- Agricultural science & business instructor
- Extension educator

Our Agricultural Communication major can help you prepare for the following careers:

- Advertising account executive
- Communications or public relations manager
- Event planner
- Extension educator
- Journalist
- Photographer
- Sales & marketing specialist
- Science writer
- Video producer
- Web designer

LEARN MORE

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/PurdueASEC
@PurdueASEC
Purdue Agronomy is dedicated to creating a world without hunger—in which every person has access to clean, drinkable water and in which climate change and air or soil pollution no longer pose a threat.

We know it’s a lofty goal, but it’s one that you’ll pursue alongside our faculty here.

Founded in 1907, our department puts students at the forefront, with opportunities for each to have three to five paid professional experiences before graduating. We also offer travel scholarships for students to participate in local, state and national competitions, as well as to study abroad.

Purdue University’s nationally ranked Collegiate Soils Judging Team regularly brings trophies and top awards back to campus. That may be, in part, because of its active participation in intense Indiana 4-H and FFA competitions here at home.

But that’s just one club in which you can participate. The Agronomy Ambassadors provide tours to prospective students and represent the department at a variety of events. The Agronomy Club hosts the university’s invitational crops and soil judging competitions, and the Soil and Water Conservation Society student chapter hosts an extensive lineup of meetings and speakers.

Our faculty boasts one of Purdue’s three World Food Prize winners, Dr. Gebisa Ejeta, and all of our 33 teaching, research and extension faculty are deeply involved with mentoring undergraduate students.
Depending on the concentration, our programs open doors to promising careers in:

- Agribusiness market analysis
- Agricultural extension
- Agronomy
- Climatology or meteorology
- Conservancy

- Environmental consultation and planning
- Farm management / buying
- Farm production supervision
- Fertilizer, chemical or seed management
- Laboratory or field research
- Precision agriculture
- Quality control
- Seed or agrichemical marketing / sales
- Technical research in industry, consulting or government agencies

Our International Agronomy program has also led graduates into the global realm to serve as technical specialists for international centers and programs, universities, multinational companies, private foundations and agencies for U.S. and international government assistance.

LEARN MORE

ag.purdue.edu/agry
agronomy@purdue.edu
(765) 494-4773
/PurdueAgronomy
In Purdue Animal Sciences, you will explore animal genetics, nutrition, physiology, reproduction, meat science, disease, growth and development, and behavior and well-being. What you find will inspire you to make a positive difference and create innovative solutions through relevant research.

Our premier facilities reflect the longstanding excellence of our academic programs and faculty. In 2018, we opened a $60 million, state-of-the-art slate of new buildings: the Hobart and Russell Creighton Hall of Animal Sciences, the Land O’Lakes Inc. Center for Experiential Learning, and the Purina Pavilion—all of which will serve evolving issues and needs in education, research and the animal industries for years to come.

The Animal Sciences Research and Education Center offers you hands-on experience with animal units. Plus, you’ll assist in leading-edge research with a global impact in nutrition, physiology, behavior, genetics, reproduction, animal health and well-being, and product quality.

It’s one thing to talk about farming in traditional classrooms. It’s another to spend significant time at the Animal Sciences Research and Education Center (ASREC)—Purdue’s off-campus research, teaching and extension farm. Here, students work hands-on in beef, dairy, swine, poultry, sheep and aquaculture units, as well as a feed mill, maintenance and machinery shop and more. Every year, the feed mill alone produces more than 2,300 tons of feed.

Animal Sciences also features its own retail store, the Boilermaker Butcher Block. Geared toward education and research, this state-inspected animal products store provides students a hands-on experience that can make them more marketable to employers in the meat industry.
Animal Sciences students choose from **six concentrations**, each with a variety of career options.

<table>
<thead>
<tr>
<th>Animal Agribusiness</th>
<th>Pre-Veterinary Medicine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Livestock representative for banks or insurance companies</td>
<td>Work with animals and discover a gateway to veterinary school, as well as additional fulfilling Animal Sciences career opportunities.</td>
</tr>
<tr>
<td>Marketing manager</td>
<td></td>
</tr>
<tr>
<td>Sales &amp; service in feed, production, pharmaceuticals &amp; equipment firms</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Behavior / Well-being</th>
<th>Production</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal trainer</td>
<td>Farm manager</td>
</tr>
<tr>
<td>Animal unit manager</td>
<td>Herdsman</td>
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<td>Nutritionist</td>
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<tr>
<td>Humane Society specialist</td>
<td>Production manager</td>
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<tr>
<td>Zoo environment enhancement specialist</td>
<td>Commodity organization field / service representative</td>
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<th>Biosciences</th>
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<td>Food safety inspector</td>
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<tr>
<td>Necropsy technician</td>
<td>Livestock buyer</td>
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<tr>
<td>Pharmaceutical industries</td>
<td>Processing plant manager</td>
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<tr>
<td>Research technician</td>
<td>Quality control technician</td>
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</tbody>
</table>

**Learn More**

- [ag.purdue.edu/ansc](http://ag.purdue.edu/ansc)
- [ansc4you@purdue.edu](mailto:ansc4you@purdue.edu)
- (765) 494-4806
- [PurdueANSC](https://www.facebook.com/PurdueANSC)
- [@PurdueANSC](https://twitter.com/@PurdueANSC)
At Purdue Biochemistry, you can **explore the foundations and processes of life** on a molecular level. Our program prepares you to contribute to a variety of disciplines upon graduation, including **medicine (human or animal), pharmacy, agriculture and all other life sciences**.

It’s a big field, but our small size drives our success—**devoting individualized attention to you** and encouraging critical thinking skills, creative solutions and a passion for life sciences.

**7:1**
Student / faculty ratio

**90+%**
Job placement

**40%+**
Students receiving scholarships

**3**
Outstanding University Senior Award winners since 2010
WHY IS BIOCHEMISTRY IN PURDUE AGRICULTURE?

It may seem odd to find a biochemistry department in the College of Agriculture. But that’s the unique advantage of a land-grant university such as Purdue.

Although biochemistry has expanded to numerous areas of research, it grew out of solutions to agricultural problems. Because land-grant universities were America’s initial institutions to focus on agriculture, their departments of biochemistry were situated in colleges of agriculture.

The subjects, and substantial potential, remain the same: Humans, animals, plants and microbes share a majority of their biochemical pathways, and Purdue Biochemistry prepares you for exceptional research in any life-sciences field.

majors & careers

Our Biochemistry major prepares students for professional or graduate school, or careers in such industries as:

♦ Pharmaceuticals
♦ Food & consumer products
♦ Life sciences research

100% Participation in undergraduate research

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LEARN MORE
Are you interested in learning more about how plants grow, develop and evolve?

Plant Science is the ideal major for you, in the department of Botany and Plant Pathology. You’ll study how plants interact with other organisms, examine the role of plants in the environment and learn how to manage plants grown for food, fiber and fuel.

Botany and Plant Pathology students are at the forefront of research helping us understand how plants grow and adapt to changing environmental conditions, respond to and resist pathogens that cause disease, and develop methods to manage weeds that affect crop production.

You’ll experience a tremendous diversity of plant-science research, gaining first-hand experience by working with a research group in a lab, greenhouse or field setting. This experience can set you on course for a career that is more than a job, but a passion to pursue and a difference to make in the world.

That art you see on the department’s walls doesn’t come from an interior designer’s warehouse. It’s work created by students, staff and faculty from our Botany and Plant Pathology department!

The goal is to create and capture the wonderful world of plants as art and achieve a creative outlet beyond the classroom. Each year, a competition is held, and the public votes on selected entries at Purdue’s annual Spring Fest event.
Our Plant Science major is designed to provide students with a broad base rather than a narrow focus on one specific area. Our students are able to enter into a wide variety of careers, including:

- Plant pathology
- Plant ecology
- Plant breeding
- Weed science
- Field research science
- Greenhouse management
- Biotechnology
- Plant propagation
- Cell, molecular & genomic biology
- Plant physiology
- Land restoration & conservation

97% Job placement
ENTOMOLOGY (INSECT BIOLOGY)

Purdue Entomology advances human quality of life by investigating society’s grand challenges through the lens of insect biology.

You’ll learn how to help stem the spread of malaria, the West Nile virus, Lyme disease and other arthropod-transmitted diseases, or support the world’s food supply through crop protection. Insects make up the majority of Earth’s animals, so insect biologists are critical to preserving endangered species and global biodiversity, and addressing the consequences of climate change.

You can also explore how to keep invasive species out of urban, rural and forest landscapes…or even how to fight crime, by applying entomological skills to forensic investigations.

Our hands-on Insect Biology major offers you the attention of a small program with the advantages of a major research university. All of our students conduct field or laboratory research under the guidance of a faculty member on a topic of the student’s choosing. Our students study any and all things regarding insects, such as diversity, pest management, molecular biology and more. Another exciting aspect of being an Insect Biology student is conducting field research and collecting live specimens.

50% Students who complete a graduate program

40% Undergraduate study abroad participation
There are numerous paths to success from our Insect Biology major.

- Agricultural, forest & urban field biology
- Education
- Laboratory technical support
- Public health
- Research & development

Pairing your Insect Biology major with a **Forensic Sciences** minor will prepare you for careers in law enforcement or becoming a federal agent.

---

**All Purdue Entomology students undertake a senior capstone project.**

For **Kirsten Brichler (BS, ’17)**, that was examining how to protect pollinators in urban environments from neonicotinoids.

Neonicotinoids are one of the most widely used groups of insecticides on home lawns, gardens and flower beds. Applying them can deter the presence of destructive chewing and sucking insects, but it also can unintentionally contaminate critical pollination resources.

Kirsten’s capstone survey of urban flower beds revealed that neonicotinoid levels often exceeded levels considered safe for honey bees—which are essential to successful pollination.

“Thanks to the capstone project in Entomology, what I found raised key questions about how the movement of neonicotinoids may contaminate flowers,” says Kirsten, who is now pursuing a master’s degree in entomology. “It also highlighted the need for more research into protecting those plants from pests while preserving their place in the pollination process.”
Imagine a world where all of the planet’s raw agricultural products are used to nourish every human being. Imagine turning those raw products into foods and beverages that are affordable, accessible, safe, shelf-stable and great-tasting.

You can help create that world as a part of Purdue Food Science, a global leader in food chemistry, food processing, food safety and foods for health.

Home to the Whistler Center for Carbohydrate Research and the Center for Food Safety Engineering, it’s also where you’ll find the Indiana Wine Grape Council and the International Food Technology Center.

With facilities that include the Sensory Analysis Lab, Enology Library, Skidmore Product Development Laboratory and a 9,500-square-foot pilot plant, brewery and wine-processing facility, you’ll be on the edge of innovation year after year.

We’ll be the first to tell you how great our faculty are, but don’t just take our word for it. Purdue’s Food Science faculty has won awards ranging from the World Food Prize to the U.S. Department of Agriculture’s National Excellence in College and University Teaching prize. The American Association of Cereal Chemists has also recognized Purdue faculty, as has the Institute of Food Technologists.

Purdue’s own Outstanding Undergraduate Teaching Award for 2018 went to Dr. Haley Oliver, who teaches such subjects as Food Sanitation and Food Microbiology in our department. She’s also the first woman selected to present the Justin Smith Morrill Lecture at the National Institute of Food and Agriculture.
Our Food Science major offers a variety of career possibilities.

- Academia
- Flavor chemist
- Food microbiologist
- Food policy & regulations
- Global food security
- Government
- Product development
- Quality analyst
- Research chef
- Sensory scientist

For example, you can pair it with a minor in Fermentation Sciences to become a brewmaster or with a minor in Pet Food Processing for numerous careers in an industry that helps protect important members of families around the world.

100%
Job placement within six months of graduation for U.S. citizens

LEARN MORE
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/PurdueFoodScience
@PurdueFoodSci
purduefoodscience
The preservation of our planet’s terrestrial and aquatic ecosystems are essential—from the fish, wildlife, water and timber resources they produce to their ecological, recreational and aesthetic benefits.

With our motto to “Think Outdoors,” Purdue Forestry and Natural Resources lets you learn the leading-edge ways to **protect and sustainably manage these ecosystems**.

Partnering with federal, state and private organizations, we help develop and disseminate knowledge in the natural resource sciences. Our forestry program is **accredited by the Society of American Foresters**, while our aquatic sciences and wildlife graduates can apply for **professional certifications with the American Fisheries Society and The Wildlife Society**.

You won’t be bound by traditional classrooms. With **4,173 acres of forest land on which to learn**, spread across 25 properties, hands-on learning in an outdoor environment is the hallmark of the undergraduate program. You can also explore unique, longstanding study-abroad opportunities in Costa Rica and Europe.

**FIND YOUR TRUE NORTH**

The Aquatic Sciences, Forestry, and Wildlife programs in Purdue Forestry and Natural Resources each require a **five-week field practicum** that takes place in the Upper Peninsula of Michigan during the summer after a student’s sophomore year.

There, students learn sampling and management techniques related to their disciplines, basic navigational skills and more specific information about career possibilities related to their major. It’s a **transformative tradition** that our department has celebrated for more than 70 years, generating practical experiences, lifelong career skills and unforgettable memories.
These majors can lead to the following careers:

- Aquaculturist
- Aquatic biologist
- Arborist
- District forester
- Fisheries biologist
- Fisheries scientist
- GIS specialist
- Industrial technologist
- Procurement forester
- Product designer / developer
- Production manager
- Sustainability manager
- Wildlife biologist, policy analyst or technician
Whether you want to design a park, operate a vineyard or help feed the world, Purdue’s Horticulture & Landscape Architecture department provides the education and experience you need to make your mark.

From our modest beginnings in 1884 to a world-renowned program with a staff of more than 70 today, education and discovery continue to drive our department. Today, we’re recognized as one of the nation’s leading contributors to plant science and horticulture. Our graduate training program produces Ph.D. graduates who join the faculties of prestigious-peer horticulture departments in the U.S. and numerous foreign countries or who hold research positions in corporations and organizations worldwide.

Ongoing research programs range from very basic molecular biology to applied research oriented toward crop productivity, improvement and development, as well as plant products and studies in plant physiology and genetics.

A team of scientists from Purdue University and the Chinese Academy of Sciences has used CRISPR/Cas9 gene-editing technology to develop a variety of rice that produces 25 to 31% more grain, which would have been virtually impossible to create through traditional breeding methods.

Jian-Kang Zhu, a distinguished professor in the Department of Horticulture and Landscape Architecture and a member of the National Academy of Science, led the research.

“If this holds true for the varieties that farmers currently use, this big increase in yield would be very important,” Zhu said. “It would really help produce a lot more grains to feed more people.”
**MAJORS**

- Horticulture
- Landscape Architecture
- Sustainable Food & Farming Systems
- Turf Management & Science

**Career opportunities are vast, including:**

- Biomedical research
- Botanical garden management
- Urban & regional design
- Food crop production
- Athletic turf management
- United States Department of Agriculture positions

**LEARN MORE**

- [ag.purdue.edu/hla](http://ag.purdue.edu/hla)
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- (765) 494-1300
- /PurdueHorticultureAndLandscapeArchitecture
- @PurdueHortLA
- purduehortla
One of the longest-running interdisciplinary environmental science programs in the country, Purdue’s program in Natural Resources & Environmental Science (NRES) will celebrate its 50th anniversary in 2020.

Are you ready to make the earth a better place? NRES is the major for you—an applied science-based program that focuses on enacting positive change in environmental management, policy and planning. You’ll take courses in soil science, hydrology, atmospheric science, environmental impact analysis, ecology, and environmental policy.

Our customized degree program lets you learn about the latest research and ideas, earn prestigious awards and recognition, and pursue careers in diverse settings. Many students add courses in conservation, environmental engineering, sustainability and economics to broaden their technical backgrounds.

Kasha Halbleib (BS ’19, Natural Resources and Environmental Science) has a passion for both the environment and volunteering—especially for Ayuda y Aprende (Help and Learning), which helps Spanish-speaking students learn English as a Second Language. Some women attending the convention were just beginning their careers; others were executives. “I had the opportunity to network with over 500 women,” Stevenson said. “It was wonderful to hear the stories of so many successful women in agriculture, and I made valuable connections.”

“We help with homework, talk to teachers,” says Kasha, a Carmel, Indiana native. “They get our help, we get to practice language skills. It helped me get confidence while helping others in the community.”

After a summer in Madrid through Study Abroad, Kasha’s Spanish improved even more.

“Study Abroad improved my language skills tenfold,” she says. “It was a six-month immersion program—classes, roommates, everything in Spanish.”

It’s just one of many Purdue Agriculture experiences that has connected her career plans to the environment she loves.

“I hope to one day help both the environment and disadvantaged populations by practicing environmental law, specifically focusing on environmental justice,” she says.
majors & careers

CONCENTRATIONS

With one-on-one advising, you’ll design a plan of study to focus on one of five concentrations:

♦ Air Quality
♦ Emerging Environmental Challenges
♦ Environmental Policy & Analysis
♦ Land Resources
♦ Water Quality

With an NRES degree, you can continue your education in environmental science, engineering, or environmental law, or conduct academic or industry research.

Additional career options include:

♦ Business & industry
♦ Consulting
♦ Environmental compliance for state / federal agencies
♦ Field assessment
♦ Natural resources & agricultural conservation
♦ Not-for-profit organizations
♦ Planning, policy & law
♦ Waste management

LEARN MORE

ag.purdue.edu/nres
nres@purdue.edu
(765) 496-0376
If you love animals and have a deep interest in the science that keeps them healthy and happy, Purdue’s Pre-Veterinary program gets you started down the path to success.

Veterinarians not only diagnose and treat illness in animal patients but also protect human health by studying zoonotic diseases, working with laboratory animals and monitoring food animal safety.

No particular major is required for admission to veterinary colleges. However, most of their admissions departments consider your academic record, research experience, time spent under a veterinarian’s supervision, considerable and varied animal experience, and communication skills.

Our curriculum, coordinated by the College of Agriculture’s Office of Academic Programs, emphasizes biological and physical sciences as foundations for the successful study of veterinary medicine. Please note: Purdue’s Pre-Veterinary Medicine is not a degree-granting major and is intended as a program for undecided students.

Pre-veterinary studies can, of course, lead to acceptance into a veterinary college and, ultimately, a practice in which you work with pets and agricultural animals that mean so much to us.

Other career options include:
- Industrial veterinarian
- Military veterinarian
- Public health officer
- Research scientist
- Veterinary education

LEARN MORE
purdue.ag/prevetinag
prevetinag@purdue.edu
(765) 494-8481
Are you interested in a career that involves studying plants, but not sure which of our majors best suits your personal interests?

Start here, and you’ll have up to four semesters to initiate your required coursework, take introductory courses and explore the differences between the plant-related majors Purdue Agriculture has to offer.

Our plant-related majors offer plenty of opportunities for you to participate in research work, whether at a state-of-the-art phenotyping facility or the Institute for Plant Sciences.

Potential career paths in plant studies range from growing plants for food, fiber and fuel to specialty areas in which plants are used for fundamental science research.

Careers also include the design and construction of landscapes or sports turf areas and the business and marketing of plant products.
Students find job placement and more at the College of Agriculture Career Services Office. Students and alumni explore careers and majors, connect with mentors or find internships and transformational educational experiences.

150+ COMPANIES ATTEND THE FALL AGRICULTURAL CAREER FAIR

The College of Agriculture hosts a career fair every fall and spring semester. In the fall, more than 150 companies attend to talk with students and alumni about their organizations, accept resumes and interview for permanent or internship positions. The spring career fair is smaller, but still draws a crowd.

Derek Berkshire (BS ’19, agribusiness marketing and agricultural communication) delayed college for a year to serve as an Indiana FFA state officer and was eager to get an internship following his freshman year.

“I looked for a business internship, but one where I could use communication skills I learned at FFA,” says the agribusiness marketing and agricultural communication double-major. He found it at Tyson Foods as a corporate identity intern. The following year, he pursued a more agribusiness-focused experience as a management associate intern with Cargill Feed and Nutrition. A common thread is he obtained both at the College of Agriculture career fair. “The career fair is amazing, just in size and scope alone,” says Berkshire, a Monticello, Indiana native, of the event that draws over 150 companies recruiting for permanent and internship positions. “The experiences you have are a great way to learn what you’re passionate about and give you a chance to put your knowledge to the test.”
DIVERSITY appreciated

More students with diverse backgrounds are finding an academic home at Purdue.

10 Emerging Leader Scholars in 2018–19

A freshman merit scholarship for underrepresented minority undergrads in-state ($10,000 / year) and out-of-state ($15,000 / year)—based on a holistic review of admission application information.

Undergraduate Student Enrollment — Ethnic Demographics

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<th>2018</th>
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</table>

MANRRS: A SPRINGBOARD TO SUCCESS

MANRRS (Minorities in Agriculture, Natural Resources, and Related Sciences) is changing the face of agriculture, natural resources and related sciences. We supply industries with a diverse pool of talented leaders, whose new ideas and perspectives can enhance the world around us.

A national society with a Purdue chapter, MANRRS welcomes all racial and ethnic groups to participate and promotes academic and professional advancement through empowerment.
Student academic success is a focus for the college, and it shows.

Transformational Experiences For All Agriculture Students

The College of Agriculture Transformational Experiences (CATE) initiative helps our students gain introspection on who they really are and discover a path toward inspiration, leadership and success.

CATE helps students:

♦ Grow into leaders, with plans personalized to their goals
♦ Engage in important issues with confidence, clarity and compassion
♦ Research exciting topics alongside world-renowned faculty
♦ Enhance academic excellence through honors courses

Ag undergrads have many CATE programs and initiatives to choose from, including:

♦ Dean’s Scholars
♦ Entrepreneurship Panel Events
♦ Issues-360™
♦ Leadership Development Certificate Program (LDCP)
♦ Learning from Leaders Events
♦ Study Abroad
♦ Undergraduate Research
♦ Indiana Statehouse Public Policy Spring Internship Programs
♦ Washington, D.C. Public Policy Summer Internship Program
SCHOLARSHIP rewarded

$2.51 MILLION IN STUDENT SCHOLARSHIPS, 2017–18

997 RECIPIENTS OF COLLEGE SCHOLARSHIPS ($1.4 MILLION)

793 RECIPIENTS OF DEPARTMENTAL SCHOLARSHIPS ($1.1 MILLION)

CATE: IN THEIR OWN WORDS

The College of Agriculture Transformational Experiences (CATE) create opportunities for students to be introspective about who they really are and find inspiration for tomorrow’s agriculture. In their own words, here are some participants’ thoughts on their experiences in CATE programs:

"Every piece adds to a great developing picture of present and future agriculture and all our roles in shaping it to a more positive outcome for posterity" — Brian Kerestes (BS ’18, Agronomy)

"Issues-360® helped me communicate my viewpoint on important issues with others and gain tools to hold productive discussions with those whose views may differ from my own." — Caroline Crosslin (BS ’19, Agricultural Economics)

"As someone who was new to the College of Ag, I’ve made some great friends and it’s helped me feel more like a part of the College." — Katriel Marks (BS ’20, Plant Genetics, Breeding & Biotechnology)
Students value connections with professors who care and can help them through their academic careers…and so do Purdue Agriculture faculty members.

**15 PROFESSORS EXPERIENCE THE PROFESSORS REVIEWING EXCELLENT PRACTICES (PREP) COURSE**

Professors go back to the classroom in the Teaching PREP (Professors Reviewing Excellent Practices) Course for new faculty. The course particularly helps new faculty ramp up for new courses—but it’s open to anyone. Teachers use Blackboard (just like students do) to help them understand the student perspective.

This course was shared with faculty and staff from around the country at the North American Colleges & Teachers of Agriculture conference hosted at Purdue University.

“A can’t imagine any college could put together a better faculty and staff than we have in the College of Agriculture. It feels like a second home.”

Patrick Bustamante
(BS ‘19, Biochemistry)

Ariana Myers (BS ‘18, Botany and Plant Pathology) grew up on a Decatur, Indiana farm with an adjacent woodlot—spending entire days in the woods playing, digging up plants and learning about the world. In high school, her gravitation toward science classes turned into a career path.

“Something to do with plants was the major for me,” Ariana says.

At Purdue Agriculture, Ariana gained experience as a teaching assistant, undergraduate research assistant and a student trainee in a USDA Animal and Plant Health Inspection Service. All of these opportunities put her alongside faculty who kept encouraging her to greater success.

“In Purdue Agriculture, professors help you identify possibilities,” Ariana says. “They take you under their wing, are very patient and help you fix your mistakes. I learned so much working in labs. It gives me a leg up, knowing I got the hands-on experience early on. At the time I appreciated it, but now I realize just how special it was.”
members regularly win awards for teaching and advising.

For the last decade, Rod Williams—associate professor of wildlife science in Forestry and Natural Resources—has expanded students’ knowledge in ways that bring real-world issues into the classroom, empower them to solve problems and improve lives, and clearly communicate their ideas. Williams primarily teaches amphibian and reptile ecology, conservation, and management but has also developed a course to prepare students for the job market. In 2013, he received the Richard L. Kohls award for Outstanding Undergraduate Teaching, and in 2016, he received the Murphy Award—Purdue’s highest award for undergraduate teaching.

5 RECENT MURPHY AWARD WINNERS
The Charles B. Murphy Outstanding Undergraduate Teaching Award is the University’s highest undergraduate teaching honor. Recent winners include: Haley Oliver, 2018; Michael Mashtare (Early Career), 2018; Rod Williams, 2016; Larry DeBoer, 2015; and Suzanne Nielsen, 2014.

Suzanne Nielsen received highest teaching honors from the United States Department of Agriculture in 2017 and Michael Mashtare received the USDA’s Early Career Award in 2018. With Haley Oliver’s honor in 2014, that’s three national teaching award winners in five years.

26 COLLEGE FACULTY IN THE BOOK OF GREAT TEACHERS
The Book of Great Teachers honors outstanding teaching faculty who have demonstrated sustained excellence in the classroom. An induction ceremony is held every five years. The most recent inductees include Clint Chapple, James Forney, Kenneth Foster, John Lumkes Jr., Lisa Mauer, Suzanne Nielsen, Paul Preckel, Gerald Shively, B. Allen Talbert, Wally Tyner and Rod Williams. Additionally, we have two 150th Anniversary professors recognized for excellence in teaching and mentorship: Suzanne Nielsen and Chris Oseto.

21 TEACHING ACADEMY ACTIVE MEMBERS
The Teaching Academy at Purdue strives to bring together the best teaching faculty across campus to create a collective voice for teaching and learning on campus. Faculty are nominated and selected by their peers to join this group. Recent College of Agriculture members include: David Barbarash, Haley Oliver, Rod Williams (2016); Larry DeBoer (2015); and Suzanne Nielsen (2014).

The Celebration of Teaching Excellence annually showcases innovation and excellence in mentoring and teaching. Award-winning teachers and mentors share what they’ve learned in lectures and workshops. Great teachers are also celebrated in a series of Profiles in Teaching, which can be found online at purdue.ag/profilesin teaching.
EXPERIENCE integrated

40% OF 2017–18 GRADUATES STUDIED ABROAD
More than a third of 2017-18 graduates participated in at least one study-abroad experience—a larger percentage than in any other Purdue college.
Study Abroad programs are available for spring break, winter break, short-term summer, long-term summer and full semesters.

40+ STUDENT ORGANIZATIONS IN AGRICULTURE
In professional and social activities outside of the classroom, students build networks of key individuals—who become important professional contacts after graduation.

Studying abroad has been the most incredible opportunity I’ve had the privilege of experiencing at Purdue. It opened my eyes to a world beyond the classroom and has inspired me to take steps outside of my comfort zone.

– Claire Stamper (BS ’19 Biochemistry)

100% OF MAJORS OFFER HANDS-ON EXPERIENCES
♦ Public Policy Spring & Summer Internships
♦ Mini-tractor Competition
♦ Center for Ag Business
♦ Agronomy Farm
♦ Boilermaker Butcher Block
♦ Cancer Research
♦ Student Farm
♦ Ag Week Task Force & Events
♦ Spring Fest / Bug Bowl
♦ Food Science Pilot Plant
♦ Martell Forest
♦ agBOT Challenge
♦ Molecular Agriculture Summer (Research) Institute

During spring break, 11 students and five Extension educators participated in a culinary class making spring rolls and chicken pho to experience a different aspect of Vietnamese culture while they studied food security and environmental challenges in the agricultural system.
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
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<td>Dufault, Sean</td>
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<td>Haan, Scott</td>
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<tr>
<td>Halsema, Mary Helen</td>
<td>Assistant Director for Transformational Education and Academic Excellence</td>
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