

agriculture



Andrews  University



AGRICULTURE



Who will feed the starving children of Africa? How can we be sure that our environment will provide for us in the future? Although these concerns touch us all, some people prefer to leave the problem-solving to someone else. Fortunately, there are people who regard these issues as a challenge—a challenge to help others, to help themselves, to make a difference. The question is, which kind of person are you? Do you really want to make a difference?

There's one place where you can do it: Andrews Agriculture. People are often surprised when they discover all the places that an Agriculture degree can take them. They're surprised that it can prepare them to take on both global challenges like starvation and environmental decay and personal concerns like a child's sick or injured pet. These are just a few of the areas where people

in Agriculture make a difference every day! All in all, you'll find that an Agriculture degree is much more than you expected. It's the perfect hands-on learning experience for those who love to work outdoors. It's the academic change of pace that high school graduates dream of. It's the competitive, versatile tool that you need to truly make a difference.



CHOOSE AGRICULTURE



"WORKING AT THE ANDREWS DAIRY GIVES YOU A STRONG WORK ETHIC THAT WILL CARRY OVER INTO EVERYTHING YOU DO IN LIFE. WORKING WITH THE CALVES HAS TAUGHT ME A LOT ABOUT PATIENCE AND UNDERSTANDING. IT IS A VALUABLE TOOL FOR SUCCESS."

—JOLENE BIRNEY, PRE-VET/ANIMAL SCIENCE MAJOR

Why Choose Agriculture? If you're like many people, the word "agriculture" makes you picture things like corn and tractors. But if you think that's all there is to agriculture, you're in for a big surprise. To find out the truth about agriculture, read on.



CHOOSE AGRICULTURE

Much More than Farming Agriculture encompasses much more than just planting crops. A degree in agriculture could prepare you to design golf courses and public parks, perform surgery on family pets, manage the grounds at Disney World, or work as an environmental educator or commodities market analyst. Just consider the following list of degree programs available at Andrews Agriculture: agribusiness; horticulture; animal science; pre veterinary medicine; landscape design; and greenhouse, nursery, dairy, or turf management. As you can see, a huge range of jobs falls under the agricultural "umbrella," all sharing a unique, interactive relationship with nature. So if you don't want to plant corn, don't sweat it. Agriculture has something for every nature lover!

College Grads Only, Please It's no mystery why the Agriculture Department fits into the A.U. College of Technology. Agriculture is one of the most highly specialized fields today, relying upon the latest technology and requiring the development of advanced skills. To keep up with the pace of technological innovation in agriculture, a college degree is a must. Increasing scope and complexity, paired with a soaring demand for services like landscape design, have created a shortage of experienced and well-trained agricultural professionals. In fact, the U.S. Bureau of Labor Statistics projects over 48,000 annual job openings reserved for people with college degrees in agricultural fields. But don't think that the academic demands of agriculture take all the fun out of studying and working in the field. On the contrary, agriculture is not only challenging and competitive, but also fun and interactive. It combines the raw vitality of nature with the sophistication of the latest technology, creating a learning experience that you can't find anywhere else.



CHOOSE AGRICULTURE

The Grass is Always Greener...

Nowadays, you can't drive two blocks without coming across the work of an agricultural specialist. College campuses, suburban neighborhoods, public parks, industrial parks, playgrounds, airports, shopping centers, golf courses, boulevards- everywhere you look, people are trying to brighten the concrete and metal of modern living with a touch of green. That's where the landscape designer comes into play, working with architects, real estate firms, and city planners to dress up environments with beautiful, natural elements like trees, flowers, ponds, and shrubs. With such a huge demand for landscape design, it's no surprise that the U.S. Bureau of Labor Statistics has predicted rapid growth in every horticulture-related field, creating a shortage of well-trained professionals over the next decade. This means that, as a horticultural specialist, you'll be one of the most in-demand college graduates around.

All God's Creatures

Nowadays, pets are regarded as members of the family, and the increasingly important role that they play in our lives has created a booming "pet market." Demand for professionals within this market is soaring, and the U.S. Bureau of Labor Statistics confirms that Veterinary Science and other animal-related occupations will experience a significant labor shortage over the next decade. An Animal Science degree will open up employment opportunities in any of these areas. It is not only your best ticket to veterinary school, but if you'd like to enter the workforce immediately after college, it will make you the natural choice for employment as an Animal Behaviorist, Nutritionist, Reproductive Specialist, Recreational Product Developer, and a host of other in-demand animal specialties. It's clear that, as an Animal Science graduate, the only employment problem you'll have after college will be which job to choose.

"I GREATLY APPRECIATE THE CANINE GROSS ANATOMY CLASS I TOOK WHILE A PRE-VET STUDENT IN THE AGRICULTURE DEPARTMENT. I WAS WELL PREPARED FOR THAT CLASS WHEN I TOOK IT MY FIRST YEAR IN VET SCHOOL. WE USED THE SAME TEXTBOOK AND LAB MANUAL WE HAD USED AT ANDREWS."
-KAREN CULVER PETERSON, DVM (B.S. ANIMAL SCIENCE, 1998)





A CHOOSE ANDREWS

A CHOOSE ANDREWS

There's no better place to prepare for a career in agriculture than at Andrews Agriculture, where you'll find first-rate quality and big-time opportunities condensed into an intimate academic setting. Here are a few of the advantages you can look forward to as a member of the Andrews Agriculture family:

**Faculty Employed
Within The Field**

In many college programs, you'll find professors who have spent their entire lives in college, moving straight from student to teacher. Not so at Andrews Agriculture, where the faculty balances theoretical knowledge with practical know-how. Here, the professors not only have previous experience in the field, but are in fact currently involved in private agricultural enterprises. The faculty includes owners of landscape design and irrigation companies, a practicing veterinarian, the manager of the largest area fruit and vegetable market, a former nursery manager, the founder and former manager of several international farms, and the former owner of a large commercial livestock operation. Additionally, A.U. Agriculture professors manage the large-scale Andrews University dairy and farm enterprises. It's this kind of experience and expertise that has given A.U. its reputation in agricultural studies. You'll get all the tricks of the trade from a faculty that knows the field firsthand.

**Hands-on
Opportunities**

At Andrews, you'll be immersed in the Southwest Michigan fruit belt, one of the richest agricultural regions in the United States. In fact, half of the students in Andrews Agriculture come from local agricultural operations, and choose to study at Andrews to acquire the expertise that they'll need to remain competitive in the industry. Berrien County has a wealth of production nurseries and landscape installers eager to employ Andrews students. Additionally, local veterinary clinics provide numerous internship opportunities for Animal Science students. But you won't even have to look that far to find hands-on experience. Andrews runs its own large-scale dairy and farming operation, with over 900 acres of cultivated land, a 1,200-head dairy herd, peach and apple orchards, and 3,500 square feet of greenhouse. So by the time you graduate, you'll already have four years of work experience, all under the close guidance of the A.U. Agriculture faculty who oversee the university agriculture operations.

**Incredible Student-
teacher Ratio**

U.S. News and World Reports has consistently ranked Andrews University among the top universities in the nation in the category of smallest average class size. The A.U. Department of Agriculture actually boasts one of the most favorable student-teacher ratios in the university, with an average class size of 10-15 students. This means that Andrews Agriculture can offer you educational opportunities you simply cannot find elsewhere.

MISSION STATEMENT

To provide quality instruction in animal science, production agriculture and horticulture-landscape design, that prepares Andrews University students in these programs with technical expertise and a commitment to stewardship of the earth's resources. The faculty affirm the principles of early Adventist education pioneers that quality education is best accomplished by integrating classroom instruction with practical experience.



"THE EDUCATION THAT I RECEIVED AT ANDREWS HAS REALLY GIVEN ME A GREAT START IN MY PROFESSIONAL CAREER. THE FACULTY IN THE AGRICULTURE DEPARTMENT ARE DEDICATED TO PROVIDING THE BEST INSTRUCTION AND ONE-ON-ONE ATTENTION TO ENSURE THAT YOU RECEIVE THE QUALITY EDUCATION YOU WOULD EXPECT FROM ANY UNIVERSITY."
—ADAM JAMES (B.T. HORTICULTURE, 2004)

DEGREE PROGRAMS

Agriculture Bachelor of Science (B.S.)

This four-year degree will prepare you for a Master's degree program if you want to pursue a career in fields that require advanced qualifications, such as plant breeding and genetics, soil science and erosion control, agricultural engineering, and cooperative extension service.

Associate of Technology (A.T.)

Students can select from three emphases in this two-year degree program:

- *Dairy Herd Management* offers hands-on training in dairy nutrition, reproduction, milk harvesting, cattle health and disease, and provides the classroom knowledge necessary to manage a modern, computerized dairy. Work scholarships at Andrews University Dairy can cover most of your tuition, room, and board.
- *Crop Production* provides the knowledge and skills necessary to grow and harvest high-quality field crops.
- *Veterinary Assistant* training gives you experience handling animals and working in the clinical lab, making you readily employable in a veterinary hospital.

Agribusiness Bachelor of Technology (B.T.)

This degree combines a major in Agriculture and a minor in Business, providing a well-rounded and practical training that will enable you to manage, supervise, or own a production agriculture or agriculture-related business, including feed, fertilizer, seed, and equipment sales.

Animal Science Bachelor of Science (B.S.)

A four-year degree in Animal Science prepares students for animal-related careers in zoos, stables, farms, pet shops and kennels, dude ranches, year-round camps, or research settings. Those planning to move on to Veterinary Medicine need to take the additional chemistry and physics classes that most vet schools require. A degree in Animal Science will show the vet school admission committees that you are serious about a career with animals and have the experience to back it up.

Horticulture Bachelor of Science (B.S.)

This four-year degree is ideal for students who would like to work in an area of horticulture that requires a graduate or postgraduate degree. You'll begin preparing for a career in plant pathology and diseases, integrated pest management, plant genetics, research, teaching, public horticulture, and other areas.

Bachelor of Technology (B.T.)

This degree combines a major and a minor and allows you to take more classes that focus on your specific area of interest. This is the career specialist's degree, preparing you for business management or ownership in the green industry. There are several emphases to choose from, including landscape design, installation and maintenance, greenhouse and nursery management, vegetable cultivation, and tree fruit production.

Associate of Technology (A.T.)

This two-year degree gets you started in the area of horticulture you'd like to work in. You can go straight into the work force as a landscape foreman, estate grounds manager, or assistant golf course superintendent, among other things. You can also use it as a springboard to move on to the four-year B.T. degree.



"I'VE ENJOYED THE CLOSER, MORE PERSONAL LEARNING EXPERIENCE. THE HORTICULTURE DEPARTMENT IS LIKE A LITTLE FAMILY AWAY FROM HOME. THE MIXTURE OF HANDS-ON CLASSES ALONG WITH DRAFTING AND LECTURE MAKE IT A COMPLETE EDUCATION."
 -CAREY KITTLESON, EDEN LANDSCAPING (B.T. HORTICULTURE, 1999)

WHAT CAN I DO WITH A DEGREE IN AGRICULTURE?

So what's life like after college? Well, an Agriculture Degree can take you practically anywhere. Here are a few of the employment options you'll have:

- Landscape Designer or Company Owner
- Greenhouse Manager, Propagator, or Owner
- Nursery Manager or Owner
- Nursery Marketing and Sales
- Horticultural Supply Sales
- Urban Forester or Parks Superintendent, City, State, National
- Botanical Garden Horticulturist or Director
- Golf Course Technician or Superintendent
- Irrigation Specialist
- Retail Garden Center Manager
- Journalist for Gardening, Horticulture, and Agriculture Publications
- Organic Vegetable Grower
- Dairy Herdsman
- Beef Feedlot Paravet
- Equine Dentist
- Equine Chiropractor
- Companion Animal Therapist
- Animal Health Inspector
- Range and Wildlife Specialist
- Zookeeper
- Dog Trainer of aid animals for the blind, deaf, or paraplegic
- Veterinarian
- Pet Nutritionist



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