

Application Form

The PATHs to PROVIDE program aims to support Native American high school students to earn an Associate's Degree at the Northeastern Oklahoma Agriculture and Mechanical College (NEO) and continue to the Oklahoma State University (OSU) to complete **dual Bachelor's degrees in Entomology and Plant and Soil Sciences.**

ENTOMOLOGY

Entomology is the study of insects and their relatives. Insects are the most numerous and diverse form of life on Earth. More than one million species have been described and up to 10 million unknown insect species on our planet are still waiting to be discovered.

Insects are important in many ways. Some are pests and destroy our food and fiber crops, forests, homes and structures. Others affect human and animal health by transmitting diseases. Many are beneficial to us and essential to the Earth's ecology. Despite their small size, they have a significant impact on the environment and economy and, therefore, our society.

There are approximately 2.1 jobs available for every student trained in Entomology. Career options include: Chemical industry researcher, Conservation technician, Environmental consultant, Epidemiologist, Extension educator, FBI agent, Forensic scientist, Insect diagnostician, Medical doctor, Pest control operator/owner, and Veterinarian, among others.

Entomology Degree in OSU

Within Entomology, you have the option to specialize in any of the following areas of study:

Bioforensics. This option prepares you for careers involving molecular techniques and forensic sciences

Insect Biology and Ecology. Stresses traditional biological aspects of insect science, behavior and ecology of insects

Pre-Veterinary and Pre-Medical Sciences.

Curriculum meets requirements for post-graduate attendance to both veterinary and medical schools

PLANT AND SOIL SCIENCES

The study of plants and soils is primarily focused on crops that provide humans a majority of their calorie needs, and the natural medium that supports their growth. Knowledge on the properties of our soil resources allow us to utilize it for the sustainable production of plants for food, feed, fiber, fuels, and raw materials.

With an expected increase in human population of 2 billion between now and 2050, our dependence on the soil for production of food and for the treatment of our wastes will continue to rise.

The demand for a workforce that can formulate sound decisions about the sustainable use of the soil resource for crop production and various uses is projected to increase by 7% between now and 2028. Career paths include: agronomic sales representative, crop consultant, environmental consultant, environmental scientist, extension specialist, marketing manager, plant breeder, precision agriculture specialist, soil conservation technician and soil survey specialist.

Plant and Soil Sciences Degree in OSU

Within Plant and Soil Sciences, you have the option to specialize in any of the following:

Agronomic Business. This will equip you with sound agronomic background and key business management concepts.

Crop Production and Management. Designed for those passionate about achieving sustainable production of crops

Plant Biotechnology and Improvement. For those interested in crop improvement and plant biotechnology

Soil and Water Resources. For those interested in applications of soil science in crop production, environmental management and engineering

Scholars will receive >\$30,000 in scholarships, paid summer internships to provide hands-on experiences, opportunities to conduct research, travel opportunities, support from faculty & student mentors, and quality education from NEO and OSU.

Please print or type all information:

Name in Full: _____
Last First Date of Birth

Email Address: _____

Home Address: _____
Street, Box or Route City State, Zip Telephone Number

Name of Parent, Guardian, or Spouse: _____

Address of Parent, Guardian, or Spouse: _____
Street, Box or Route City State, Zip

Stillwater Address (if any): _____

Name of High School: _____ Graduation Year: _____

Address of High School Attended: _____

If more than one High School attended, please indicate name and location:

Composite ACT Score _____ and/or SAT: _____

"I hereby certify that the information submitted on this application is accurate to the best of my knowledge and I grant permission for the NEO and/or OSU to verify any information given in this application."

Signature: _____

Note: A current copy of your High School transcript(s) and a reference letter (from a teacher or principal) must be attached.

Return the completed application to the following address:

**Brian Arnall
Department of Plant and Soil Science
Oklahoma State University
371 Ag Hall Stillwater Ok 74078**

or emailed to

B.arnall@okstate.edu

FAMILY INFORMATION

Occupation of Parent(s) or Spouse: _____

Employer of Parent(s) or Spouse: _____

Total Number of Family Members Attending College (including self): _____

FINANCES AND NEED

Indicate the percentage of total, by source of support, funds which are or will be committed to your schooling:

Family: _____ % Spouse: _____ % Savings: _____ % Self: _____ % Total: _____ %

List anticipated sources of other funds (scholarships, work, loans, VA, etc):

Career Interests (please encircle all that are applicable):

Biotechnology	Crop Consulting	Pre-Med	Sales and Marketing
Ecology	Envi. Consulting	Pre-Vet	Policy/Regulatory
Ag. Production	Teaching	Ag. Extension	Envi.Protection/Mgt

Others (list): _____

Unsure of career interest? (yes)

HIGH SCHOOL ACTIVITIES, ORGANIZATIONS, ATHLETICS, ETC.

Using the categories below, list your significant college and/or high school activities. Indicate which semester an office was held, or a noteworthy aspect of your participation such as: President of AZ Club, Spring '01; Delegate of Nat'l. Forum, Fall 2021, etc. Since the scholarship committee members will know your activities only as reported on this form, entries should clearly indicate your level of involvement.

1. High School Activities
2. Honorary Organizations
3. Other Awards, Recognitions or Activities Scholarships
