

Environmental Resources Science

Environmental resources science focuses on solving problems related to wetlands conservation, woodlands and wildlife management, stream protection, air quality, and waste management.

For an Associate of Science degree, environmental resources science majors complete a combination of technical and general courses that allow them to gain hands-on experience while completing 50 percent of the curriculum for a Bachelor of Science from the School of Natural Resources at The Ohio State University College of Food, Agricultural, and Environmental Sciences.

This degree also includes the transfer module, a common set of general education courses which apply to other bachelors degree programs in Ohio.

Pursuing Environmental Resources Science at Ohio State ATI

Students pursuing the Associate of Science degree must complete the following high school curriculum in order to be admitted to the program without conditions:

- four units of English
- three units of mathematics
- two units of natural science
- two units of social science
- two units of the same foreign language*
- one unit of visual or performing arts
- one additional unit from any of the above categories

*Students with a deficiency in foreign language are permitted to fulfill the requirement upon transfer to the Columbus campus.

Applicants to the Associate of Science program in environmental resources science who have not followed this curriculum will have conditions placed on their enrollment. These conditions must be satisfied by earning college credits in the high school subject areas in which the students are deficient.

Students seeking an Associate of Science in Environmental Resources Science enter directly into the program upon completion of their admission requirements. All applicants are strongly advised to arrange a pre-admission conference in order to acquaint themselves with the various aspects of the major.

General Degree Requirements

Students must complete a minimum of 95 quarter credit hours of technical and general studies courses, with a cumulative point-hour ratio of 2.0 or above to earn an

Associate of Science in Environmental Resources Science. A minimum of 45 quarter credit hours must be earned through regular course work at the institute.

Technical courses focus on the science of the environment and include soil science; fertilizers and soil fertility; introduction to environmental science, society and natural resources; and irrigation, drainage, and erosion control systems. A minimum of 22 quarter credit hours is required in technical courses.

Environmental resources science students also complete 55 credit hours of general studies, which include communication, social sciences, mathematics, and biological and chemical sciences.

Eighteen credit hours of electives, to be selected with input from the student's advisor, round out the curriculum.

Students in the environmental resources science program do not complete an internship while attending Ohio State ATI. However, similar work experience in the field is strongly recommended.

Career Prospects in Environmental Resources Science

After completing the Associate of Science in Environmental Resources Science, many students choose to further their education by pursuing a bachelors degree in environmental science; fisheries, wildlife, forestry; or human dimensions in natural resources at the Ohio State Columbus campus. Those who graduate with majors in these fields are prepared for careers in water quality management, air pollution control, or land management; with fish and game agencies, educational facilities, or private consulting firms; in woodlands management, wildlife management, or with state or federal forestry agencies; or in tourism, environmental education, or recreation.

Beginning salaries for graduates with bachelor's degrees in natural resources range from \$25,000 to \$35,000 per year. Salaries vary widely depending on the employer, location, candidates' skills, and previous job-related experience.

Related Programs

Students who choose not to complete a bachelors degree and instead pursue employment upon graduation with an Associate of Science in Environmental Resources Science should consult the Environmental Resources Management major series sheet for salary information.

For more information, check these web sites:

Environmental Resources Science:

www.ati.osu.edu/programs

Ohio State ATI: www.ati.osu.edu

Ohio State: www.osu.edu

Admissions: www.ATIadmissions.osu.edu

Student Success Services: www.ati.osu.edu/support.html

Curriculum Sample

First Year:

Autumn Quarter	
FAES Survey	1
English Composition	5
Introduction to Environmental Science	5
American Civilization to 1877	5

Winter Quarter

Rural Sociology	5
Algebra and Trigonometry and their Applications	4
Music Cultures of the World	5
Transferable elective	3

Spring Quarter

Principles of Food and Resource Economics	5
Introductory Chemistry I	5
Transferable elective	3
Transferable elective	3
Total hours	49

Second Year:

Autumn Quarter	
Soils and Soil Management	4
Introductory Chemistry II	5
Bio Sc: Energy Transfer and Development	5
Transferable elective	3

Winter Quarter

Agricultural Issues in Contemporary American Society	5
Fertilizers and Soil Fertility	3
Bio Sc: Form, Function, Diversity, and Ecology	5
Transferable elective	3

Spring Quarter

Irrigation, Drainage, and Erosion Control Systems*	5
Society and Natural Resources	5
Transferable elective	3
Total hours	46

* Courses offered during alternate years and can be taken either in your first or second year.

Opportunities for Outstanding Students

Each spring, the Outstanding Student Banquet recognizes the top student in each major or technology. Ohio State ATI also has a chapter of Phi Theta Kappa, the international honor society for students at two-year institutions. Selection for this prestigious society is based upon academic achievement and leadership qualities. Students with cumulative grade point averages of between 3.7 and 4.0 are eligible to graduate with Latin honors (summa cum laude, magna cum laude, or cum laude).

About Ohio State ATI

Ohio State ATI, located in Wooster, Ohio, is ranked number one in the nation in the awarding of associate degrees in agriculture and related sciences and is the associate-degree granting unit of The Ohio State University College of Food, Agricultural, and Environmental Sciences. Twenty-five technical programs leading to the Associate of Applied Science or Associate of Science degree are offered at the Wooster campus. Two Certificate of Competency programs, in hydraulic service and repair and commercial turf equipment, are also offered. Within four months of graduation, 99% of Ohio State ATI graduates are employed or pursuing bachelor's degrees.

Ohio State ATI's 50-acre central campus features classroom and laboratory buildings, horticultural facilities, the student activities center, residence hall, and Applewood Village student apartments. A 1700-acre farm laboratory is located five miles east of the central campus.

Halterman Hall houses classrooms, the Library Learning Resource Center, computer labs, administrative and faculty offices, as well as specialized laboratory facilities for chemistry, physics, entomology, biology, botany, soils, floral design, and landscape classes.

Adjacent to Halterman Hall is Skou Hall, home to classrooms, academic offices, and laboratories for animal, dairy, and equine sciences and turfgrass management. Skou Hall also houses engine, electronics, construction, and Fluid Power classes, and contains the Ohio State ATI Bookstore, Café Carmen, a student lounge, and the office of Student Success Services, which provides career and personal counseling, tutoring, study groups, disability services, and other support services to students.

Ohio State ATI's greenhouse complex, tropical plant conservatory, and numerous outdoor gardens assure that the campus is blooming and beautiful year-round.

Ohio State ATI's student activities center features a weight room, game room, gymnasium, and racquetball courts and coordinates activities and events sponsored by student clubs. An active intramural sports program makes use of ATI's multi-purpose athletic field.

The Ohio State ATI residence hall features fully-furnished efficiency apartments that include a kitchenette and full bath. The Applewood Village student apartments are fully-furnished one-, two-, or three-bedroom townhouses. Both the residence hall and apartment village are air conditioned and include utilities, cable TV, and Internet access. Parking is free on the ATI campus.

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Contact information:

The Ohio State University Agricultural Technical Institute
Office of Admissions | 1328 Dover Road | Wooster, Ohio 44691-4000
(330) 264-3911 ext. 1327 | Toll free in Ohio 1-800-OH-STATE