



APPLIED AND ENVIRONMENTAL MICROBIOLOGY

Davis College of Agriculture, Forestry, and Consumer Sciences

Students in the Davis College are offered fields of study that complement a wide variety of careers. Programs are constantly being updated to reflect industry trends, and student initiative is strongly encouraged. Advising is conducted by faculty members, promoting mentorship. Many current students and alumni comment on the small-school feel of the Davis College, citing the individual attention from faculty, substantial extracurricular opportunities, and hands-on learning that enhance our academic experience.

The Davis College has 22 undergraduate major fields of study and a growing number of minors in the academic divisions of animal and nutritional sciences, design and merchandising, forestry and natural resources, plant and soil sciences, and resource management. Our programs allow for considerable flexibility, as several offer individual academic tracks depending on student interests and goals.

Instructional facilities and unique settings offer varied learning opportunities for students. The majority of classrooms, laboratories, design studios and offices are located on WVU's Evansdale Campus. The College also maintains eight farms, a campus greenhouse, and more than 8,000 acres of forest land for teaching and research. Hands-on experiences, service learning, undergraduate research and study abroad are strongly encouraged for students in every program.

The Applied and Environmental Microbiology Program is ideal for students who desire a career at the forefront of human and plant health, the pharmaceutical industry, food science, and the environment. Graduates will be prepared to be productive team members in a variety of settings including microbial ecology, soil microbiology, environmental microbiology, and plant pathology. Likewise, students are prepared for further educational training at the graduate level, or for professional schools such as medical, dental, and optometry.

Program Admission and Curriculum

Students who meet University admission requirements may be accepted directly into the Davis College as Applied and Environmental Microbiology majors. To earn a bachelor's degree, all students must complete 128 credit hours, including the General Education Curriculum required by the University.

Examples of core courses within the major are general microbiology, environmental microbiology, general plant pathology, principles of genetics, introductory biochemistry, organic chemistry, and soil science.

In consultation with an advisor, students have the flexibility to choose several in-depth microbiology or microbiology-related courses from upper-level courses, including applied water microbiology, soil microbiology, food microbiology, nematology, environmental sampling, mycology, and environmental impact assessment.

Students intending on applying to postgraduate professional programs are encouraged to take additional elective biological science courses such as introductory physiology and cellular and molecular biology.

Complete course listings and descriptions can be found in the current *WVU Undergraduate Catalog*.

Employment Opportunities

Opportunities for employment include federal and state governmental laboratories, private environmental consulting companies, the pharmaceutical industry, food production, food safety, and clinical laboratories in the healthcare industry. Beginning salaries range from \$30,000 to \$40,000.



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West Virginia University ♦ 2008-2009
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Majors in the Davis College of Agriculture, Forestry, and Consumer Sciences

Agribusiness Management & Rural Development:	B
Agricultural & Extension Education:	B, M
Agricultural & Resource Economics:	M
Agriculture, Forestry, & Consumer Sciences:	M
Agroecology:	B
Agronomy:	B, M
Animal & Food Science:	D
Animal & Nutritional Sciences:	B, M
Applied & Environmental Microbiology:	B
Biochemistry:	B
Design Studies:	B
Entomology:	M
Environmental & Natural Resource Economics:	B
Environmental Microbiology:	M
Environmental Protection:	B
Family & Consumer Sciences:	M
Fashion Design & Merchandising:	B
Forest Resources Management:	B
Forest Resources Science:	D
Forestry:	M
Genetics & Developmental Biology:	M, D
Horticulture:	B, M
Human and Community Development:	D
Human Nutrition & Foods:	B
Interior Design:	B
Landscape Architecture:	B
Multidisciplinary Studies:	B
Natural Resource Economics:	D
Plant & Soil Sciences:	D
Plant Pathology:	M
Recreation, Parks, & Tourism Resources:	B, M
Reproductive Physiology:	M, D
Resource Management:	D
Soil Science:	B
Wildlife & Fisheries Resources:	B, M
Wood Science & Technology:	B

B = Bachelor's; M = Master's; D = Doctorate

For more information, visit
www.davis.wvu.edu

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