COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

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Dean: Craig Beyrouthy
Associate Deans: James Hanson, Adel Shirmohammadi, and Joseph Sullivan
Assistant Deans: Evelyn E. Cooper and Carolyn Fernandez

The College of Agriculture and Natural Resources offers a variety of academic programs that apply science, management, design, and engineering to improve the world in which we live and work. Feeding the world’s population, developing scientifically-based land use practices and policies, understanding animal and plant biology, improving nutrition and its effects on human health, conserving and restoring ecosystems, and profitably managing farms and agribusinesses in harmony with the environment are all vital concerns of the College. Integrating the use and protection of natural resources in the production of food and nursery crops is a challenge facing students.

In addition to course work, undergraduates have opportunities to work closely with faculty in state-of-the-art facilities including those for animal sciences, dietetics, environmental science and technology, landscape architecture, plant sciences, and veterinary medicine. The College also serves as the academic home of the Maryland Campus of the Virginia-Maryland Regional College of Veterinary Medicine. Nearby resources such as the U.S. Department of Agriculture’s Beltsville Agricultural National Research Center, the National Institutes of Health, the Food and Drug Administration, the Smithsonian Institution and the National Zoo, Maryland’s Departments of Agriculture and Natural Resources, and the Patuxent Wildlife Research Center enhance teaching, research, internship, and career opportunities for students. Field study courses offered in Azerbaijan, Brazil, Belize, Costa Rica, Italy, Peru, Russia, and Taiwan expose students to other cultures and environments. Learning opportunities are also strengthened through student involvement in such co-curricular activities as the College Honors Program, AGNR Undergraduate Research Program, career programs, leadership workshops, and student clubs.

Departments

Departments and Units

• Agricultural and Resource Economics (https://academiccatalog.umd.edu/undergraduate/colleges-schools/agriculture-natural-resources/agricultural-resource-economics)
• Animal and Avian Sciences (https://academiccatalog.umd.edu/undergraduate/colleges-schools/agriculture-natural-resources/animal-sciences)
• Applied Agriculture Certificate (https://academiccatalog.umd.edu/undergraduate/colleges-schools/agriculture-natural-resources/applied-agriculture)
• Environmental Science and Policy (https://academiccatalog.umd.edu/undergraduate/colleges-schools/agriculture-natural-resources/environmental-science-policy)
• Environmental Science and Technology (https://academiccatalog.umd.edu/undergraduate/colleges-schools/agriculture-natural-resources/environmental-science-technology)
• International Agriculture and Natural Resources Certificate (https://academiccatalog.umd.edu/undergraduate/colleges-schools/agriculture-natural-resources/international-agriculture-natural-resources-certificate)
• Nutrition and Food Science (https://academiccatalog.umd.edu/undergraduate/colleges-schools/agriculture-natural-resources/nutrition-food-science)
• Plant Sciences and Landscape Architecture (https://academiccatalog.umd.edu/undergraduate/colleges-schools/agriculture-natural-resources/plant-sciences-landscape-architecture)

Academic Programs

Majors
No results were found.

Minors
No results were found.

Certificates
No results were found.

Advising

Each student in the College is assigned a faculty advisor to assist in selecting courses, accessing academic enrichment opportunities, and making strategic career decisions. Advisors normally work with a limited number of students and are able to give individual guidance. Both freshmen entering with a definite choice of curriculum and transfer students are assigned to departmental advisors for counsel and planning of all academic programs as soon as possible. Students have access to additional advising through their home department’s undergraduate program office and through the college’s student services office. AGNR Peer Mentors, academically talented and university-engaged upperclassmen, provide an additional advising resource for students in the college.

Specifics of advisor assignment are available in the undergraduate office of each department.

Opportunities

LIVING-LEARNING PROGRAMS

The college sponsors, through its Environmental Science and Policy Program, the Environment, Technology and Economy curriculum in College Park Scholars. Admission to College Park Scholars is selective and by invitation only. For further information, see Undergraduate Studies, College Park Scholars Program in the Colleges and Schools section of this site.

SPECIALIZED ACADEMIC PROGRAMS

The Institute of Applied Agriculture offers 60-credit certificate programs designed primarily for professional development. Options offered include Agribusiness Management, Equine Business Management, Golf Course Management, Golf Course Construction Management, Landscape Management, Ornamental Horticulture, Sports Turf Management, Sustainable Agriculture and Turfgrass Management. Some two-year
program students continue on in regular four-year programs in the college and several of the college’s majors allow limited use of Institute courses in their programs.

**PRE-VETERINARY MEDICINE**

The College of Agriculture and Natural Resources is the most popular choice for students who wish to pursue veterinary medicine. Two excellent majors not to be missed are housed in the Department of Animal and Avian Sciences. The Agricultural and Veterinary Medicine major offers a student an accelerated academic path with all recommended courses for veterinary school and the opportunity to apply at the end of the junior year. The Sciences/Pre-Professional major offers a student a four year academic path with all recommended courses for veterinary school and the opportunity to apply upon receipt of the bachelor of science (B.S.) degree.

1409 Animal Sciences Center, 301-405-6495
http://ansc.umd.edu/undergraduate/vet-school-faq
sbalcon@umd.edu

Advising for pre-veterinary students occurs at two levels: initially, Dr. Sarah Balcom, DVM, pre-veterinary advisor in the Department of Animal and Avian Sciences (1409 Animal Sciences Center; 301-405-6495 or email at sbalcon@umd.edu), will advise students, regardless of major, about preparing for veterinary school. During the freshmen and sophomore years, advising is done through spring group advising meetings which cover topics such as coursework, grades, finances, extra-curricular activities, gaining animal and veterinary experience, and securing academic and professional references. For students in the process of applying to veterinary school, Dr. Balcom is available for email and one-on-one consultations. As students progress and establish academic credentials, they should also use the advising resources of the Virginia-Maryland Regional College of Veterinary Medicine, 8075 Greenmead Drive, University of Maryland, College Park, MD 20742-3711. Dr. Nathaniel Tablante (301-314-6810, nlt@umd.edu) is the pre-veterinary advisor for the Regional College at that location.

University of Maryland students in any major may prepare for admission to veterinary school by completing the basic science and other courses required by veterinary colleges. The College of Agriculture and Natural Resources major in Animal Sciences (Science/Pre-professional option) includes many of the commonly required courses; however, students should consult catalogs from the veterinary schools to which they are interested in applying to determine the specific courses required by each. That information is available through the American Association of Veterinary Medical Colleges (http://www.aavmc.org/).

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**APPLIED AGRICULTURE CERTIFICATE**

Institute of Applied Agriculture (60-credit Certificate in Applied Agriculture)
College of Agriculture and Natural Resources
Glori Hyman, Director
2123 Jull Hall, 301-405-4685
E-mail:iaa-request@umd.edu
www.iaa.umd.edu

Through the Institute of Applied Agriculture (IAA) students earn a UMD Certificate in Applied Agriculture. Students may select one of the following concentrations: Agricultural Business Management, Agricultural Leadership and Communication, General Turfgrass Management, Golf Course Management, Landscape Management, Ornamental Horticulture, Sports Turf Management, and Sustainable Agriculture. The IAA provides students with the entrepreneurial and technical skills needed to manage and lead successful agricultural enterprises.

The IAA has a separate admission policy which can be found on its website. Upon completion of the program, most students accept job offers. However, students are welcome to transfer to the University of Maryland, College Park; University of Maryland University College; or other schools.

**Agriculture Forward at the University of Maryland (Ag Forward)** is an accelerated program for first-time university students who are interested in earning dual credentials from the University of Maryland, College Park. Students begin their studies in the Institute of Applied Agriculture (IAA). After successfully completing 30 credits at the IAA with a GPA of at least 3.0, students are eligible to transfer into a bachelor’s degree program within the College of Agriculture and Natural Resources. Students continue to earn their Certificate in Applied Agriculture while working on their bachelor’s degree.
COLLEGE HONORS PROGRAM

Students may apply for admission to the College Honors program after completing 60 credits with a minimum 3.2 GPA in a program within the College. Honors students work with a faculty mentor and must take at least 12 credits of honors courses including a senior thesis. Interested students should contact their faculty advisor.

APPROVED STUDENT SOCIETIES AND PROFESSIONAL ORGANIZATIONS

Student participation in professional societies, clubs, and interest groups is extensive in the college, and students find opportunity for varied expression and growth in the following organizations:

AGNR Peer Mentors; AGNR Student Ambassadors; AGNR Student Council; Alpha Zeta; Alpha Gamma Rho; Animal and Avian Sciences Graduate Student Association; Block and Bridle; Collegiate 4-H; ENSPire, Food and Nutrition Club; Horticulture Club, Landscape Architecture Student Association; Natural Resources Management Society; Sigma Alpha; UM Equestrian Club; UM Food Science Club; UM Student Chapter of Golf Course Superintendents Association of America; Minorities in Agriculture and Natural Resources and Related Sciences (MANRRS) and Veterinary Science Club.

STUDENT ENGAGEMENT AND SERVICE UNITS

VIRGINIA-MARYLAND REGIONAL COLLEGE OF VETERINARY MEDICINE, MARYLAND CAMPUS

College of Agriculture and Natural Resources

Dr. Nathaniel Tablante, Associate Director, Center for Public and Corporate Veterinary Medicine
1202 Gudelsky Veterinary Center, 301-314-6820

Email: nlt@umd.edu
http://vetmed.umd.edu/

The Virginia-Maryland Regional College of Veterinary Medicine is operated by the University of Maryland and the Virginia Polytechnic Institute and State University. Each year, 30 Maryland and 50 Virginia residents comprise the entering class of a four-year program leading to a Doctor of Veterinary Medicine (DVM).

The first three years are given at Virginia Polytechnic Institute and State University in Blacksburg, Virginia. The final year of instruction is given at several locations, including the University of Maryland, College Park.

A student desiring admission to the college must complete the pre-veterinary requirements and apply for admission to the professional curriculum. Admission to this program is competitive, and open to all Maryland residents. All Maryland residents’ applications are processed at the College of Veterinary Medicine, Maryland Campus, University of Maryland, College Park.

INSTITUTE OF APPLIED AGRICULTURE (TWO-YEAR CERTIFICATE PROGRAM)

College of Agriculture and Natural Resources
Glori Hyman, Director
2123 Jull Hall, 301-405-4685
E-mail: iaa@umd.edu

The Institute of Applied Agriculture (IAA) awards academic certificates in Agricultural Business Management, Golf Course Management, Golf Course Construction Management, Landscape Management, Ornamental Horticulture, Sports Turf Management, Sustainable Agriculture and Turfgrass Management. As a two-year program, the IAA has a separate admission policy. Upon completion of the program, students are welcome to transfer to the University of Maryland, College Park; University of Maryland University College; and other schools.

For more information about the IAA, its admissions procedures, and requirements, contact the Institute of Applied Agriculture, 2123 Jull Hall, University of Maryland, College Park, MD 20742-2525.

FINANCIAL ASSISTANCE

A number of scholarships are available for students entering or already enrolled in the College of Agriculture and Natural Resources. These include:

AGNR Alumni Association Scholarship; AGNR General Scholarship; Arthur M. Ahalt Memorial Scholarship; Attorney General's Agricultural and Natural Resources Scholarship; Professor John Axley Memorial Scholarship; Eileen Barnett Scholarship; Beltsville Garden Club Scholarship; Bruce and Donna Berlage Scholarship; Chester F. Betch Endowment; Bowie-Crofton Garden Club Scholarship; Frank D. Brown Memorial Scholarship; Joseph Byrd Foundation Scholarship; Jonas and Joan Cash Student Award Scholarship; Chapel Valley Landscape Honorary Scholarship; George Earle Cook, Jr. Scholarship; Ernest T. Cullen Memorial Scholarship; Jaime Dannemann Scholarship; R.F. Davis Memorial Scholarship; Jerry V. DeBarthe Memorial Scholarship; William R. DeLauder Scholarship; Frank J. Duda Turfgrass Scholarship; Mylo S. Downey Memorial Scholarship; Equine Studies Scholarship; Explore AGNR Scholarship; James R. Ferguson Memorial Scholarship; Kenneth S. Fowler Memorial Endowed Scholarship; Explore AGNR Scholarship; James & Sarah Goddard Memorial Scholarship; William D. Godwin Endowed Scholarship; Golf Course Builders of America Association Foundation Scholarship; Manasses J. & Susanna Jarboe Grove Scholarship; Tom Hartsock Animal Management Scholarship; H. Palmer Hopkins Scholarship established by Charles W. Coale, Jr. & Ellen Kirby Coale; Charles & Judy lager Scholarship; Land Grant Scholarship; James & Gertrude Leamer Scholarship; Donald Leisheq International Travel Scholarship; Lee Majeskie Dairy Youth Scholarship; Maryland Greenhouse Growers Association Scholarship; James R. & Patricia M. Miller Outstanding Senior Scholarship; John and Marjorie Moore International Agriculture & Natural Resources Student Travel Scholarship; James and Dessie Moxley Scholarship; Paul R. Poffenberger Memorial Scholarship; Jennifer Russo Memorial Scholarship; Ross & Pauline Smith Scholarship; J. Herbert Snyder Educational Scholarship; Southern States Cooperative Scholarship; Hiram I. Stine Memorial Scholarship; T.B. Symons Memorial Scholarship; TIC Gums Scholarship; Vansville Farmers Club Scholarship; A.V. Vierheller Scholarship; Siegfried Weisberger, Jr. Memorial Scholarship; Theo & Georgianna Miles Weiss Memorial Scholarship; and the William R. Winslow Scholarship.

The College is privileged to offer additional support in the form of interest-free loans through the Catherine Brinkley Loan Fund which are available to students who are residents of Maryland and progressing in programs within the College of Agriculture and Natural Resources.
AWARDS
The Agriculture and Natural Resources Alumni Chapter provides recognition each year for the Outstanding Senior in the two-year and four-year programs.

DEPARTMENTS AND CENTERS
Undergraduate credit instruction is offered by the Departments of Animal and Avian Sciences (ANSC), Agricultural and Resource Economics (AREC), Environmental Science and Technology (ENST), Nutrition and Food Science (NFSC), and Plant Science and Landscape Architecture (PSLA). Additionally, the Environmental Science and Policy (ENSP) major is based and administered within the College of Agriculture and Natural Resources; it offers specializations advised within this college as well as the colleges of Behavioral and Social Sciences, Chemical, Mathematical and Natural Sciences. Also, the Agricultural Science and Technology major within PSLA offers students the opportunity to double major in Agriculture Education. Additional courses are provided through the 2-year certificate program in the Institute of Applied Agriculture.

SPECIAL ADVANTAGES AND FACILITIES
Educational opportunities in the College of Agriculture and Natural Resources are enhanced by the proximity of several research units of the federal government. Teaching and research activities in the College are conducted with the cooperation of scientists and professional people in government positions. Of particular interest are the National Agricultural Research Center at Beltsville, the National Agricultural Library, the National Arboretum, and the Food and Drug Administration.

Instruction in the basic biological and social sciences, and landscape design is conducted in modern, technologically-equipped classrooms and laboratories. The application of basic principles to practical situations is demonstrated for the student in numerous ways. In addition to on-campus facilities, the college operates several education and research facilities throughout Maryland. Horticultural and agronomic crops, turf, beef, horses, dairy cattle, and poultry are maintained under practical and research conditions and may be used by our students. These centers, as well as other selected locations on and off campus also serve as living laboratories for environmental studies.

RESEARCH UNITS
MARYLAND AGRICULTURAL EXPERIMENT STATION
The Maryland Agricultural Experiment Station (MAES) supports research conducted primarily by 120 faculty scientists located within the College of Agriculture and Natural Resources. Faculty use state-of-the-art facilities such as a new Research Greenhouse Complex and Environmental Simulator, as well as 10 off-campus research locations, for research in the science, business, policy, and practice of agriculture. MAES supports research that benefits consumers and producers alike; for example, our significant focus on the environment protects valuable natural resources such as the Chesapeake Bay. Undergraduate students also benefit from mentoring by MAES-supported faculty and instructional use of MAES facilities statewide.

UNIVERSITY OF MARYLAND EXTENSION
The University of Maryland Extension educates citizens in the application of practical, research-based knowledge to critical issues in agricultural and agribusiness including aquaculture; natural resources and the environment; human development, nutrition, diet, and health; youth development and 4-H; and family and community leadership. The statewide program includes more than 180 faculty and support staff located in 23 counties, the City of Baltimore, four regional centers, and the University of Maryland’s College Park and Eastern Shore campuses. In addition, more than 15,000 volunteers and citizens in Maryland give generously of their time and energy.

CENTER FOR FOOD SAFETY AND SECURITY SYSTEMS (CFS3)
The Center for Food Safety and Security Systems (CFS3) provides world-class research, education and outreach on issues related to food and water defense, safety and protection. Housed in the Department of Nutrition and Food Science, this new center will provide additional opportunity for students to become involved in issues of significance for homeland security. For information on CFS3, please see http://cfs3.umd.edu/ or call 301-405-0773.

HARRY R. HUGHES CENTER FOR AGRO-ECOLOGY, INC.
The Harry R. Hughes Center for Agro-Ecology, Inc. is a private, non-profit 501 (c) 3 organization affiliated with the University of Maryland. The Center brings together diverse interests from the agricultural, forestry, and environmental communities for the purpose of retaining Maryland’s working landscapes and the industries they support while protecting and improving the health of the Chesapeake Bay and its tributaries. For further information see http://agresearch.umd.edu/agroecol or call at 410-827-6202.

JOINT INSTITUTE FOR FOOD SAFETY AND NUTRITION
The Joint Institute For Food Safety and Nutrition (JIFSAN), established between the US FDA and the University of Maryland in 1996, is a jointly administered research and education program. For information on JIFSAN, see www.jifsan.umd.edu/ or call 301-405-8382.

NORTHEASTERN REGIONAL AQUACULTURE CENTER
The Northeastern Regional Aquaculture Center (NRAC) is one of five Regional Aquaculture Centers established by the U. S. Congress for the United States. Funded by the USDA, and representing 12 states and the District of Columbia, NRAC develops and sponsors cooperative regional research and extension projects in support of the aquaculture industry in the northeastern United States. For further information see https://agresearch.umd.edu/nrac or call 301-405-6085.