

College	Department	Program Title	Brief Description	Link
Agriculture & Natural Resources	UMD Extension	4-H	Maryland 4-H aspires to be a recognized leading youth development program that inspires youth and adults to learn, grow and work together as catalyst for positive change. Program areas include: Animal Science, Citizenship & Leadership, Engineering Technology, Environmental Science, Healthy Living, International Programs, Volunteerism, 4-H Outreach, and 4-H Military Programs.	https://extension.umd.edu/4-h
Agriculture & Natural Resources	UMD Extension	Ag Marketing	The Agriculture Marketing Program’s mission is to assist individuals with marketing plans, develop profitable, sustainable marketing opportunities, and work in coordination with other supporting agencies to enhance Maryland’s agricultural economy.	https://extension.umd.edu/agmarketing
Agriculture & Natural Resources	UMD Extension	Agricultural Law	University of Maryland’s Agriculture Law Education Initiative (ALEI) provides both formal and informal education by creating educational resources in an effort to preserve and strengthen Maryland’s agricultural industry. Farmer education and student engagement are key elements of the ALEI program. The legal specialists create and lead education programs for farmers throughout the state on a variety of topics.	http://umaglaw.org/
Agriculture & Natural Resources	UMD Extension	Agricultural Nutrient Management Program	The Agricultural Nutrient Management Program, which is funded by the Maryland Department of Agriculture (MDA), provides the following services: nutrient management plan development for Maryland farmers through a network of nutrient management advisors located in all 23 county Extension offices; and continuing education and technical support for certified nutrient management consultants and certified farm operators via nutrient management specialists located on the UMCP campus.	https://extension.umd.edu/anmp
Agriculture & Natural Resources	UMD Extension	Agexploration: The Science of Maryland Agriculture	AGsploration: The Science of Maryland Agriculture is a statewide curriculum designed to increase middle school student agriculture literacy and STEM (science, technology, engineering, and math) skills. Topics include production agriculture, environmental science, and nutrition. More than 400 teachers have been trained to utilize the curriculum. In 2016 the AGsploration team is focusing on final edits to the curriculum and continued expansion of digital learning resources.	https://extension.umd.edu/agexploration

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Agriculture & Natural Resources	UMD Extension	Annie's Project: Empowering Women in Agriculture	MidAtlantic Women In Agriculture has proudly offered Annie's Project to the region since 2008! Annie's Project is designed to empower women in agriculture to develop networks and skills key to making successful business partners. Through the courses, women in agriculture find answers, strength, friendship, and grow in confidence, business skills, and community prestige.	https://extension.umd.edu/annies-project
Agriculture & Natural Resources	UMD Extension	Oyster Aquaculture Education & Training Program	The Oyster Aquaculture and Education Program provides programs and materials to watermen and others to develop profitable shellfish aquaculture businesses. The goal is to rebuild the shellfish industry, provide employment and aid in restoring the bivalve populations important to our bays.	https://extension.umd.edu/aquaculture
Agriculture & Natural Resources	UMD Extension	Beginning Farmer Success	The Maryland Beginning Farmer Success Project provides new farmers with resources, training and contacts to be able to <i>explore</i> enterprise options, <i>refine</i> ideas, <i>develop</i> plans and strategies, and <i>implement</i> their farming practice.	https://extension.umd.edu/newfarmer
Agriculture & Natural Resources	UMD Extension	Breakfast on the Farm	Breakfast on the Farm is an effort to show those who may have never visited a farm how food gets from the farm to the table. "We invite the public to attend this event and meet a three generation farm family who strives to produce safe, wholesome food for Maryland communities" said Dr. Bob Peters, University of Maryland Professor and Extension Dairy Specialist.	https://extension.umd.edu/breakfast-on-the-farm
Agriculture & Natural Resources	UMD Extension	Expanded Food and Nutrition Education Program	The Expanded Food and Nutrition Education Program (EFNEP) focuses on diet quality, nutrition, cost savings, and food safety. EFNEP educators teach program participants new knowledge and skills, including how to: Choose nutritious snacks/beverages for children; Plan and prepare healthy meals; Handle and store foods safely; Prepare new foods and recipes; Compare prices and save on their food bill; Become physically active; Lose weight sensibly.	https://extension.umd.edu/efnep
Agriculture & Natural Resources	UMD Extension	Farm Management	The objective of Farm Management Extension programs is to help Maryland farmers improve their business management skills to improve management productivity, increase profitability, and fulfill their long-term goals.	https://extension.umd.edu/farmmanagement

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Agriculture & Natural Resources	UMD Extension	Financial Education Programs	University of Maryland Extension provides basic financial education for young people and adults through research-based programs, often in collaboration with non-profits and community organizations.	https://extension.umd.edu/money
Agriculture & Natural Resources	UMD Extension	Food Preservation and Safety	Food preservation is a reemerging skill in Maryland. Canning classes are being taught by trained educators. Classes are for beginners and veterans alike.	https://extension.umd.edu/foodpreservation
Agriculture & Natural Resources	UMD Extension	Food Supplement Nutrition Education	Maryland's Food Supplement Nutrition Education (FSNE) offers nutrition education programs in five initiative areas: Farm to Family Initiative; Healthy Changes for Out of School Youth; Healthy School Communities; Healthy Tots, Healthy Families; Securing Food Resources for Families.	https://extension.umd.edu/fsne
Agriculture & Natural Resources	UMD Extension	General Forestry Course	This non-credit course is designed for individuals wishing to increase their understanding of forests and forest management. Specifically, the General Forestry Course targets Maryland forest landowners and other citizens with an interest in the principles and practices of forestry.	https://extension.umd.edu/forestry-course
Agriculture & Natural Resources	UMD Extension	Grant Writing Assistance Program for Agriculture	Farmers and Producers can receive detailed advice on submitting applications to the USDA Sustainable Agriculture Research and Education (SARE) Farmer Grant program.	https://extension.umd.edu/grants
Agriculture & Natural Resources	UMD Extension	Grapes and Fruit	An Extension Specialist in Viticulture and Small Fruit (Dr. Fiola) works with existing vineyard and winery owners to increase production and improve quality. He is working to expand the industry in Maryland by educating new vineyard owners. Resources include A Sustainable Practices Work Book for Wine Grape Growing in Maryland.	https://extension.umd.edu/smallfruit
Agriculture & Natural Resources	UMD Extension	Grow It Eat It	The Grow It Eat It (GIEI) Program is a subset of the UME Master Gardener program that was launched in 2009 to teach Marylanders how to grow food in home, community, and school gardens. Over the past eight years, Master Gardeners (MGs) have taught hundreds of classes, developed demonstration gardens, and helped thousands of individuals and groups start their own food gardens.	https://extension.umd.edu/growit

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Agriculture & Natural Resources	UMD Extension	Healthy & Safe Environments	UME's Healthy and Safe Environments Action Team offers a variety of classes, workshops, and trainings to reach specific audiences including youth and the general public, health professionals and caseworkers, and day care providers. Participants learn how to make homes, schools and work places safer and healthier.	https://extension.umd.edu/healthy-environments
Agriculture & Natural Resources	UMD Extension	Home & Garden Information Center	Vision: People gardening and managing land in harmony with nature. Mission: Develop and deliver science-based, sustainable gardening and integrated pest management education for better human and environmental health.	https://extension.umd.edu/hgic
Agriculture & Natural Resources	UMD Extension	Insuring Your Health	The Smart Choice Health Insurance™ and Smart Use Health Insurance™ program consists of five multidisciplinary modules that provide health insurance literacy education to assist adults in exploring the information they need to build their knowledge, skills and confidence to choose and use their health insurance wisely.	https://extension.umd.edu/insure
Agriculture & Natural Resources	UMD Extension	LEAD Maryland	LEAD Maryland Foundation, Inc. is dedicated to identifying and developing leadership to serve agriculture, natural resources, and rural communities. The LEAD Fellowship curriculum focuses on providing public issues education, skills building, leadership development, and personal growth. Through program participation, Fellows become more equipped to solve problems, identify resources, engage and educate others, lead communities, and to shape public policy.	https://extension.umd.edu/lead-maryland
Agriculture & Natural Resources	UMD Extension	Maryland Horses	Multiple events are held throughout the spring, summer, and fall to address issues of pasture management like rotational grazing, weed control, renovating poor performing pasture, and more. The Equine Rotational Grazing Demonstration Farm is part of the Central Maryland Research and Educational Center in Clarksville, Maryland. The site was developed to educate equine farm operators how to better manage their pastures to benefit horses and the environment.	https://extension.umd.edu/horses/our-programs

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Agriculture & Natural Resources	UMD Extension	Maryland Poultry	Our goal is to help Maryland’s poultry industry and growers both large and small with general practical knowledge about poultry production practices in order to continue to develop, maintain, and operate economically viable and environmentally responsible poultry operations in the state.	https://extension.umd.edu/poultry
Agriculture & Natural Resources	UMD Extension	Maryland Vegetables	It is the goal of University of Maryland’s Vegetable IPM Specialist to provide professionals, growers and citizens of Maryland in particular and the Mid-Atlantic in general practical knowledge about vegetable production practices for the purpose of sustaining the environment, enhancing economic vitality, and improving the quality of life of individuals and their communities.	https://extension.umd.edu/mdvegetables
Agriculture & Natural Resources	UMD Extension	National Health Outreach Conference	This conference provides a multi-disciplinary and ecological view of health and wellness research, practice and outreach education. The conference offers a combination of workshops, seminars, research updates, theoretical perspectives, and thought-provoking dialogue to fully engage participants in the dynamic and complex world of health. Using the Social Ecological Model as a framework, the conference tracks offer opportunities for participants to gain new perspectives on the multifaceted nature of our society, and how each sector influences health.	https://extension.umd.edu/nhoc
Agriculture & Natural Resources	UMD Extension	Personal Finance Seminar	The Personal Finance Seminar for Professionals is designed for personal finance professionals from public, private, and not-for-profit organizations, including all branches of the military. Participants learn about today’s most critical financial issues and how to turn information into consumer knowledge and action. Sessions are held on topics such as Financial Planning & the Latest Trends, The Growing Racial Wealth Divide, and For-profit Higher Education in the United States.	http://extension.umd.edu/pfs

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Agriculture & Natural Resources	UMD Extension	Maryland Sea Grant College	Maryland Sea Grant College draws on the talent and expertise of the state's universities and academic laboratories to foster innovative marine research, education, and outreach. In this way Maryland Sea Grant serves as a bridge between academic expertise and the needs of those who manage, conserve, enjoy, or make their living from the Chesapeake Bay. Graduate fellows work directly with Sea Grant-funded researchers, and sponsor undergraduate summer students in a Research Experiences for Undergraduates program. Through an Aquaculture-in-Action curriculum, online interactive lessons, and science fellowships for teachers, Sea Grant has helped raise the bar on environmental science education.	http://extension.umd.edu/seagrant
Agriculture & Natural Resources	UMD Extension	Sheep and Goat Program	UMD Extension offers educational programs for sheep and goat producers in Maryland. Some of the programs include The Junior Sheep & Goat Skillathon for youth to gain and demonstrate knowledge in livestock, Integrated Pest Management/FAMACHA workshops, and Webinar short courses held every winter and cover various aspects of sheep and goat production.	http://extension.umd.edu/sheep-goats
Agriculture & Natural Resources	UMD Extension	Soil Health	After an in-depth needs analysis, Soil Health was chosen as the focal topic for a new three-year professional development program for Ag Service Providers, sponsored by USDA Sustainable Agriculture Research and Education (SARE) and University of Maryland Extension. Various educational events and workshops are held throughout the year.	http://extension.umd.edu/soil-health
Agriculture & Natural Resources	UMD Extension	Watershed Protection and Restoration Program	Within the Watershed Protection and Restoration Program, the Watershed Stewards Academy is a training program to empower residents to improve the water quality of local streams. The Academy provides Stewards with knowledge and expertise from lecturers, training in using watershed assessment tools for analyzing stormwater runoff, and hands-on experience leading stormwater management and behavior change projects. A consortium of experienced stormwater management practitioners provides Stewards with on-going support for their community projects. Stewards become community leaders in reducing harmful effects of polluted stormwater running off into our streams.	http://extension.umd.edu/watershed/watershed-stewards-academy

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Agriculture & Natural Resources	UMD Extension	Well Water and Septic Systems	The University of Maryland Extension's Well Water and Septic Homeowner Education Project provides seminars to help marylanders maintain the operations of their septic systems and provide safe drinking water to their families. Seminars include the Keep Your Water Well Seminar and the Septic System 101 Seminar.	http://extension.umd.edu/well-and-septic
Agriculture & Natural Resources	UMD Extension	Women in Agriculture	MidAtlantic Women in Agriculture is dedicated to providing knowledge and resources to women who share a passion for agriculture. Women in Agriculture hosts an annual conference to educate, engage and empower women, offers webinars on various topics, and runs Annie's Project, a program to educate, connect and empower women in agriculture.	http://extension.umd.edu/womeninag
Agriculture & Natural Resources	UMD Extension	Woodland Stewardship Education	The Woodland Stewardship Education (WSE) program helps connect woodland property owners to their land. Through a variety of Extension offerings, WSE brings together professionals from such fields as forestry, wildlife ecology, and natural resource management to enable woodland property owners to make sound and informed decisions about managing their land.	http://extension.umd.edu/woodland
Agriculture & Natural Resources	Institute of Applied Agriculture	Academic Courses	The Institute of Applied Agriculture offers a Continuing Education option that allows individuals not enrolled at the University of Maryland to take select IAA courses without completing an entire Certificate in Applied Agriculture for credit. Courses are in areas of study such as Sustainable Agriculture, Landscape Management, Ornamental Horticulture and Agricultural Leadership and Communication.	http://iaa.umd.edu/areas-study/continuing-education
Agriculture & Natural Resources	Institute of Applied Agriculture	Pesticide Use and Safety	This 15-week noncredit workshop provides an overview of pesticide use and safety. Topics include environmental protection, labeling, personal safety, first aid, formulation and chemistry, equipment, disposal, storage, record-keeping, and liability.	http://iaa.umd.edu/
Agriculture & Natural Resources	Institute of Applied Agriculture	Turfgrass Management	In this 15-week noncredit workshop, emphasis is placed on turfgrass growth and development, turfgrass use and adaptability, and turfgrass pests. Major weed, insect, and disease pests in Maryland will be discussed. Primary cultural practices including fertilization, mowing, and irrigation will also be covered.	http://iaa.umd.edu/

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Agriculture & Natural Resources	Institute of Applied Agriculture	Insects of Ornamentals and Turfgrass	This 15-week noncredit workshop covers the major insect pests and beneficial insects of ornamental plants and turfgrasses in the Mid-Atlantic region. The student will be responsible for insect identification, life history, and control practices of approximately 100 insects.	http://iaa.umd.edu/
Agriculture & Natural Resources	Institute of Applied Agriculture	Turfgrass Weed Control Module	The presence of unwanted plants or weeds in a lawn or sports turf is one of the most noticeable pests of turf stands. This module covers four main areas of turfgrass weed control. The first area provides an overview of why some plants are classified as weeds, herbicide terminology, and cultural programs used for reducing weed problems in lawn and sports turf. Annual grass control for such weeds as crabgrass and goosegrass using both preemergence and postemergence herbicides will be the second area of discussion and is geared to the Mid-Atlantic region. Broadleaf weed control is the third area of concentration and will cover the major types of postemergence herbicides and optimal conditions for their use. The final topic is on perennial grass and nutsedge control products and programs. Both selective and nonselective herbicides will be covered within this section	http://iaa.umd.edu/
Agriculture & Natural Resources	Institute of Applied Agriculture	Turfgrass Insect Control Module	Though many insects are beneficial there are a few that can cause extensive damage to turfgrasses. This module covers the major insect pests of turf within the Mid-Atlantic region. Identification of white grubs such as Japanese beetle, masked chafers, and June beetles will be covered. Also damage symptoms and control programs for this group of insect pests will be reviewed. Other damaging insects covered in this module are billbugs, chinch bugs, and sod webworms. Principles of integrated pest management will be emphasized when assessing control options for insect pests.	http://iaa.umd.edu/

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Agriculture & Natural Resources	Institute of Applied Agriculture	Nitrogen Fertilization Module	Nitrogen is considered one of the most important nutrients in determining turfgrass quality and is a cornerstone of turfgrass fertilization programs. However concerns over the role of excessive nitrogen levels on environmental and plant quality need to be addressed. This module looks at the different types of nitrogen fertilizers used for turfgrasses and covers the basic principles of nitrogen fertility. A key concept of how nitrogen becomes available for plant uptake and the advantages and disadvantages of different nitrogen fertilizers is thoroughly covered in this module.	http://iaa.umd.edu/
Agriculture & Natural Resources	Institute of Applied Agriculture	Turfgrass Growth and Development Module	Turfgrasses, because of their growth characteristics, have the ability to withstand traffic and mowing thus allowing a range of uses from lawn to sports field applications. Turfgrass managers must understand how turfgrasses respond to environmental and management inputs regarding growth and development. This module will cover the many different facets of plant growth from photosynthetic to respiratory activities to the major growth areas of a turfgrass plant. The importance of root growth, tillering, and inflorescence development will be discussed in this module.	http://iaa.umd.edu/
Agriculture & Natural Resources	Institute of Applied Agriculture	Turfgrass Species Selection Module	Selecting turfgrass species and cultivars that are best adapted to known environmental conditions and management inputs is a critical component of best management practices and also implementing sound integrated pest management programs. This module will look at different groups of turfgrasses such as are warm season and cool season turfgrasses and how they are best suited for lawn and sports field applications. Criteria such as shade tolerance, wear tolerance, heat, and drought tolerance are various environmental factors that must be considered when selecting turfgrass species and cultivars. This module also covers management inputs such as mowing height, fertility, and irrigation requirements for different turfgrass species.	http://iaa.umd.edu/

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Agriculture & Natural Resources	Institute of Applied Agriculture	Turfgrass Soils Module	The ability of turfgrasses to absorb nutrients and water are critical components in maintaining active and healthy plant growth. As a turfgrass manager knowledge of different soil characteristics such as texture, porosity, and nutrient retention are critical in implementing proper fertility and irrigation programs. This module will cover topics such as biotic factors that influence soil health, the influence of soil pH on nutrient availability, and how soil porosity affects soil water movement and plant water uptake. Additional areas in this module look at the impact of wear and compaction on plant growth, the role of organic matter on a soils productivity, and how soil chemistry affects nutrient availability.	http://iaa.umd.edu/
Agriculture & Natural Resources	Institute of Applied Agriculture	Turfgrass Adaptation to Environmental Conditions	How do turfgrasses survive drought conditions? How do turfgrasses survive freezing temperatures? This module will cover these topics and management steps to better allow turfgrasses to adapt to these stress situations. The importance of light quality and intensity are also reviewed as is heat stress and heat adaptation. Management practices such as adjusting mowing heights or nitrogen fertility that provide a more favorable plant response to these conditions are discussed in detail in this module.	http://iaa.umd.edu/
Agriculture & Natural Resources	Institute of Applied Agriculture	UMD Community Learning Garden Work Hours	Four hours per week of guided garden work, open to the campus community. Lessons and activities vary, including soil preparation, planting, watering, weeding, harvesting, and pest control.	http://iaa.umd.edu/
Agriculture & Natural Resources	Institute of Applied Agriculture	Introduction to Beekeeping	One-day course in the art and science of keeping honey bees as a hobby or for profit. Students study honey bee history, biology, anatomy, nutrition, and management, as well as visit an active apiary on campus.	http://iaa.umd.edu/
Agriculture & Natural Resources	Institute of Applied Agriculture	Vegetable Seedling Production Workshop	A three-hour workshop at Terp Farm about spring vegetable seedling propagation including soil building, tray seeding, and greenhouse management.	http://iaa.umd.edu/
Agriculture & Natural Resources	Institute of Applied Agriculture	Chesapeake CRAFT at Terp Farm	Terp Farm hosted a three-hour Chesapeake CRAFT farm tour and potluck. Interns and apprentices from more than ten regional farms gathered to network and learn about Terp Farm's sustainable production system.	http://iaa.umd.edu/

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Agriculture & Natural Resources	Institute of Applied Agriculture	Best Buddies Greenhouse Workshop	IAA hosted a field trip of the Best Buddies program at Parkdale High School in Prince Georges County. Students started seeds in the UMD greenhouse that would later be planted at their school garden. We also had a tour of the greenhouse, had a bilingual discussion of vegetable consumption in their lives, and talked about career opportunities through the IAA.	http://iaa.umd.edu/
Agriculture & Natural Resources	Institute of Applied Agriculture	AgDiscovery	IAA hosted approximately 20 high school students from across the country who are interested in studying agriculture for two workshops: Tree Identification & Measurement, and Soils & Sustainability	http://iaa.umd.edu/
Agriculture & Natural Resources	Institute of Applied Agriculture	Seed Saving Workshop	UMD students attended this event organized by the Community Learning Garden club and their faculty advisor. Seed saved from the garden the past summer and fall were procesed and packaged for free distribution at spring garden events. The advisor led a lesson on the seed saving process and the heirloom and native varieties being saved.	http://iaa.umd.edu/