Department of Plant Science & Landscape Architecture: *Finding your Major*

www.psla.umd.edu

	Areas of Interest	Suggested Specialization/ Concentration	Description	Suggested Major	Degree
Production Agriculture	• Agronomy • Crop science • Precision production agriculture • Agricultural Ecology	*Agronomy*	Students will be trained in a broad range of agricultural disciplines which will provide them with the comprehensive education in crop, soil and animal sciences that is agronomy. Students will take a holistic approach to the design of their course work which will integrate the science of agronomy by taking courses in Animal Science, Crop Science, Soil Science, Agricultural Economics, Pest Management, and Agricultural Engineering.	Agricultural Science & Technology	Bachelor of Science in Agricultural Science & Technology, Specialization of your choice
	• Greenhouse and Nurseries • Sustainable orchard and vegetable crop production • Viticulture • Urban Agriculture	*Environmental Horticulture*	Horticulture and Crop Production prepares students for advisory and managerial positions in agronomic, greenhouse, nursery, orchard and vegetable crops. Students focus their studies on plant growth and development and plant protection.		
	• Agricultural Education	*Agronomy or Environmental Horticulture*	This program combines a degree in Agricultural Science & Technology, as well as a secondary major or a degree in Education. This will allow you to become a High School Ag Educator. Ag Educators quite often develop in to leaders in the agricultural community on a local and state level. Our program gives you two options to pursue Agricultural Education: 1) Double Major Path; or 2) Integrated Masters Path.	Agriculture Science & Technology, AND Secondary Education: Science; OR Integrated Masters Path	Bachelor of Science in Agricultural Science & Technology, AND secondary major in Secondary Education: Science; OR B.S. in Agricultural Science & Technology, AND M.A. in Secondary Education
Fundamental Biology	• Plant Ecology/Conservation • Plant Physiology & Development • Plant Pathology & Microbiology	*Plant Science (Plant Biology)*	Plant Science is designed to prepare students for graduate or professional schools and/or a career in research. This area provides a strong foundation for postgraduate education in many aspects of plant biology including biotechnology, breeding, conservation, ecology, genomics and plant protection. Areas of study include: urban ecology, forest ecology, wetland ecology, conservation biology, population biology, systematic taxonomy, agricultural ecology, fungal ecology, plant physiology, plant genetics, plant adaptation to climate change, developmental biology, crop improvement, mechanisms of plant pathogen interactions, virology, food safety, food security, mycology	Plant Science	Bachelor of Science in Plant Science, Specialization: Plant Science
Design	• Environmental Design & Planning • Ecological Restoration • Conservation & Stewardship	*Landscape Architecture*	The Bachelor of Landscape Architecture (BLA) degree is accredited by the Landscape Architecture Accreditation Board (LAAB). The BLA degree meets the academic requirements for licensure. The studio-based design curriculum applies ecological principles to the integration of physical and social factors in the design and planning process. Areas of study include: application of ecological restoration, design, and planning principles; visualization; creating equitable, livable, and ecologically sustainable environments; community engagement; leadership for protecting cultural and natural environments; urban agriculture	Landscape Architecture	Bachelor of Landscape Architecture (professional accredited degree)
Management	• Turfgrass • Sports turf • Commercial turfgrass • Parkland turfgrass	*Turf & Golf Course Management*	Turf and Golf Course Management provides the skills needed to succeed as a turfgrass professional in the golf course or sports turf industry, stressing an interdisciplinary approach to this career.	Plant Science	Bachelor of Science in Plant Science, Concentration of your choice
	• Landscape Horticulture • Landscape Business Management • Landscape Design/Build • Project Management	*Landscape Management*	Landscape Management trains students for management positions in the landscape industry. The curriculum combines plant science, design and business management courses enabling graduates to meet the challenges of careers in the green industry.		
	• Urban tree and forest management • Greenspace tree canopy design and management • Urban forest health	*Urban Forestry*	Urban forestry provides the skills and experience necessary in is the art, science and technology of managing trees and forest resources in and around urban community ecosystems for the sustainable, sociological, economic and aesthetic benefits trees provide society.		