

COLLEGE: Montgomery College

HIGH SCHOOLS: Damascus

CLUSTER: Environmental, Agriculture, & Natural Resources

MCPS PROGRAM: Environmental Horticulture

MC PROGRAM: Landscape Technology A.A.S.

Students enrolled in this program option develop an understanding of the relationship between humans and the environment. All phases of horticulture are studied with special attention given to the positive impact the green industry has on both urban and suburban landscapes. Focus areas include: crop and plant production; botanic gardens and arboreta; landscaping and landscape maintenance; plant use and function; ecological systems; population; invasive species, and recreation (golf courses and parks).

STUDENT ENTRY POINTS	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	REQUIRED COURSES				
						RECOMMENDED ELECTIVE COURSES	OTHER ELECTIVE COURSES	CAREER AND TECHNICAL EDUCATION COURSES		
SECONDARY	9	English	Algebra I or Geometry	Matter & Energy	US History A/B	Foreign Language	Physical Education	Foundations of Technology		
	Accounting as well as Entrepreneurship & Business Management are highly recommended courses.									
	10	English	Algebra 2	Biology	NSL	Foreign Language	Health (.5) Elective (.5)	Foundations of Horticulture		
	11	English	Algebra 2 or Precalculus	Chemistry	Modern World History A/B	Fine Arts	Environmental Studies (.5) and Greenhouse & Nursery Production (.5)	♦ Software Applications by Design A/B		
	An internship in the horticulture industry is highly recommended.									
12	English	Precalculus or Calculus	Science Elective Adv. Physics or Adv Biology	Elective Biotechnology	Choose 2 from these electives: Floral & Interior Plan Design (.5), Fundamentals of Design (.5), Landscape Installation (.5), or Landscape Maintenance	Choose one to complete program: Horticulture Internship, or Entrepreneurial Horticulture, Guided Research Horticulture, or Academy Capstone Experience				
An articulation agreement with Montgomery College is being developed.										
POSTSECONDARY	Year 1 1st Semester	EN 101 Techniques of Reading and Writing I	Mathematics Foundation	BI 101 General Biology		LN 101 Introduction to Landscape Technology	MG 205 Organizational Behavior	BA 101 Introduction to Business	MG 101 Principles of Management	
	Year 1 2nd Semester	English Foundation		Health Foundation		LN 130 Landscape Design	LN 108 Plant Materials I	♦ CA Introduction to Computer Applications		
	Year 2 1st Semester	Speech Foundation		CH 100A Intro to College Chemistry or CH 101 Principles of Chemistry I	Behavioral & Social Sciences Distribution	LN 120 Landscape Graphics	LN 109 Plant Materials II	LN 140 Creating Gardens in a Digital Age	LN 118 Landscape Management	
	Year 2 2nd Semester	Arts of Humanities Distribution				LN 204 Landscape Construction Methods & Estimation	LN 110 Herbaceous Plant Materials	LN 115 Water Garden Management	LN 280 Landscape Technology Internship	

Students who complete the MCPS program (courses in red) in high school do not have to repeat the courses in red at MC.

Required Courses
Recommended Elective Courses
Career and Technical Education Courses
Credit-Based Transition Programs (e.g. Dual/Concurrent Enrollment, Articulated Courses, 2+2+2) (♦=High School to Com. College)(●=Com. College to 4-Yr Institution)
Mandatory Assessments, Advising, and Additional Preparation

This MCPS CTE program is approved by the Maryland State Department of Education for graduates in 2012.



Environmental, Agriculture, and Natural Resources

2009–2010

Environmental Horticulture (OASIS Code = HC) CIP 01.0601.4			
Requirements for Program Completion (2 credits A) + (1 credit B) + (1 credit C)			
Code	Course #	Course Title	Credit
A	5535/5536	Foundations of Horticulture A/B	1.0
	TBD	Environmental Studies	.5
	TBD	Greenhouse and Nursery Production	.5
B	TBD	Floral and Interior Plant Design	.5
	TBD	Fundamentals of Design	.5
	TBD	Landscape Installation	.5
	TBD	Landscape Maintenance	.5
C	5710	Horticulture Internship (Unlimited Repeats)	.5
	TBD	Entrepreneurial Horticulture	1.0
	TBD	Academy Capstone Experience	1.0

For more information, go to:

<http://www.montgomeryschoolsmd.org/departments/cte/toolkit/ClusterInfo/Environment/index.shtm>.