

COLLEGE: Montgomery College

HIGH SCHOOLS: Damascus, Gaithersburg, Magruder

CLUSTER: Environmental, Agriculture, & Natural Resources

MCPS PROGRAM: Green Industry Management

MC PROGRAM: Landscape Technology A.A.S.

This complete pathway program emphasizes the blending of agriculture and management in relation to greenhouse growers, landscape related firms, golf course management, garden/home centers, and smaller segments of the industry. Students will learn how to install landscape design plans, irrigation systems, and hardscapes in addition to maintaining established landscapes. Students will be able to evaluate job performance make business decisions, bid basic jobs and complete basic managerial tasks required by supervisors in the industry.

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, Entrepreneurship & Business Management, and Software Applications by Design 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	♦ Software Applications by Design A/B	Greenhouse & Nursery Production (.5) and Landscape Maintenance (.5)	
	An internship in the horticulture industry is highly recommended.								
12	English	Precalculus or Calculus	Science Elective Adv. Physics <i>or</i> Adv Biology	Elective Biotechnology	Choose 2 from these electives: Environmental Studies (.5), Fundamentals of Design (.5), Landscape Installation (.5), or Turfgrass/Irrigation Management (.5)		Choose one to complete program: Horticulture Internship, or Entrepreneurial Horticulture, Guided Research Horticulture, or CTE 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 & Estimating	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.



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

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



Environmental, Agriculture, and Natural Resources

2009–2010

Green Industry Management (OASIS Code = GI) CIP 01.0699.4			
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	Greenhouse and Nursery Production	.5
	TBD	Landscape Maintenance	.5
B	TBD	Landscape Installation	.5
	TBD	Environmental Studies	.5
	TBD	Fundamentals of Design	.5
	TBD	Turfgrass/Irrigation Management	.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>.