

COLLEGE: Montgomery College

HIGH SCHOOLS: Damascus, Gaithersburg, Seneca Valley, Springbrook,

CLUSTER: Information Technology

Wheaton, Wootton

MCPS PROGRAM: AOIT Networking Hardware Option

MC PROGRAM: Network and Wireless Technologies A.A.S.

The Academy of Information Technology (AOIT), a member program of the National Academy Foundation (NAF), has provided public high school students with the knowledge and skills required to succeed in one of the country's fastest-growing industries. The AOIT introduces students to broad career opportunities in today's digital workforce and, in the process, equips them with personal, analytical, technical, and communications skills they need to thrive.

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	Mathematics	Science	Social Studies	Foreign Language	Physical Education	Select one: Discovering Programming Concepts A/B***, Computer Programming 1A/B**	
	Entrepreneurship and Business Management A/B, Financial Planning, and high level math classes are highly recommended courses.								
	10	English	Mathematics	Science	Social Studies	Foreign Language	Health (.5) Personal Finance (.5)	At least one from: Adv. Software Apps by Design A/B**, Discovering Prog. Concepts A/B**, Computer Prog. 1 A/B**, "Microcomputer Technologies A/B**"	
	11	English	Mathematics	Science	Social Studies	Technology Education Credit	Fine Arts	At least one credit from: Computer Prog 1 A/B**, Computer Prog.2 A/B***, ♦Network Engineering & Management***	
	National Academy Foundation requires a six to eight week paid internship.								
12	English	Mathematics	Science	Entrepreneurship & Business Management A/B	Internship-National Academy Foundation (NAF) A/B	College-NAF A/B	At least one credit from: ♦Computer Prog 1 A/B**, ♦Computer Prog AP 2 A/B***, ♦Network Engineering & Management A/B***, Guided Research-NAF A/B, ♦Adv. Network Engineering & Management***		
Students can articulate up to 24 college tech prep credits for a tuition savings of \$3,192.									
POSTSECONDARY	Year 1 1st Semester	EN 101 Techniques of Reading & Writing	Mathematics Foundation			♦NW 127 Microcomputer Control Programs	NW 130 Network Cabling Technology	♦NW 140 Microcomputer Configuration & Installation	
	Year 1 2nd Semester	English Foundation			Behavioral and Social Sciences Distribution	♦NW 151 Introduction to Networking	NW 170 Networking Operating Systems	NW 173 Network Security	NW 199 Microsoft Windows Client Operating Systems
	Year 2 1st Semester	Arts or Humanities Foundation		Health Foundation		♦NW 252 Cisco Routers and Routing Basics	♦NW 253 Cisco Router Configuration & Management II		
	Year 2 2nd Semester	Speech Foundation		Natural Sciences Lab distribution		♦NW 254 Cisco Router Configuration & Management III		Technical electives (3)	

Note: Four information technology credits are required to complete this career pathway program.

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

Technology Education Credit for class of 2010 and 2011 only *Advanced Technology Education Credit for class of 2010 and 2011(4000 level credits only)



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

Required Courses
Recommended Elective 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)



Information Technology

2009–2010

National Academy of Information Technology (OASIS Code = AN) Networking/Hardware Option CIP 11.0151.0			
Requirements for Program Completion (1 credit A) + (2 credits B) + (1 credit C)			
Code	Course #	Course Title	Credit
A	2964/2967	Discovering Programming Concepts A/B (Tech Ed Credit)	1.0
	2989/2990	Computer Programming 1A/B (Advanced Level) (Tech Credit and Adv Tech Ed Credit)	1.0
	2905/2906	Advanced Software Applications by Design A/B (Adv Tech Ed Credit)	1.0
B	5611/5612 4214/4215	Microcomputer Technologies A/B (4000 courses = Adv Tech Ed Credit)	1.0
	5613/5614 4216/4217	Microcomputer Technologies A/B (Double period) (4000 courses = Adv Tech Ed Credit)	2.0
	5615/5616 4218/4219	Network Engineering and Management A/B (4000 courses = Adv Tech Ed Credit)	1.0
	5617/5618 4220/4221	Network Engineering and Management A/B (Double period) (4000 courses = Adv Tech Ed Credit)	2.0
C	4230/4231	Advanced Network Engineering and Management A/B (Adv Tech Ed Credit)	1.0
	5720	Internship-National Academy Foundation (Unlimited Repeats)	.5
	2938/2939	Guided Research- National Academy Foundation A/B (Advanced Level)	.5
	TBD	College- National Academy Foundation (Advanced Level)	1.0

***National Academy Foundation requirements:**

5720	Internship – National Academy Foundation (Unlimited repeats)	0.5
TBD	College- National Academy Foundation (Advanced Level)	1.0

Articulation Agreements with Montgomery College (MC)

Students can articulate up to **24** credits at Montgomery College for a savings of **\$3,274** (including fees).