

Sample Coursework - Pathways in Network and Information Technology (P-TECH)
 Program Pathway - **4 Year Pathway Option**

This is a sample pathway schedule that may be tailored to meet a student's individual needs. In addition to program coursework, all students must take prescribed English, math, science, social studies, and all other courses required for a Maryland high school diploma AND Montgomery College (MC) AAS degree in Network and Information Technologies. Honors courses and Advanced Placement options are available for most academic subjects.

Grade 9 Year 1 <i>On HS Campus</i>	Grade 10 Year 2 <i>On HS Campus</i>	Grade 11 Year 3 <i>On HS and MC Campus</i>	Grade 12 Year 4 <i>On MC Campus</i>
Summer Bridge Program <i>College Preparation Support offered every summer</i>			<i>Industry-related Work Experience After Grade 11</i>
English <i>English 9</i>	English <i>English 10/Honors English</i>	English <i>MC English Course</i>	English <i>MC English Course</i>
Mathematics <i>Algebra 1, Geometry or Algebra 2</i>	Mathematics <i>Geometry Algebra 2, or Pre-calculus</i>	Mathematics <i>Algebra 2, Precalculus, or AP Calculus AB/BC</i>	Mathematics <i>MC Math course</i>
Science <i>9th Grade Science</i>	Science <i>10th Grade Science</i>		Science <i>MC Natural Science with Lab</i>
Social Studies <i>U.S. History</i>	Social Studies <i>National, State, & Local Government</i>	Social Studies <i>Modern World History</i>	<i>MC Behavioral and Social Science Course</i>
Physical Education and Health	Fine Arts Elective <i>MC Arts or Music Elective</i>		
Technology Education Credit <i>Foundations of Computer Science</i>	Program Coursework <i>Network Operations 1</i>	Program Coursework* <i>MC Networking Courses MC Communications Course</i>	Program Coursework* <i>MC Networking and Computer Science Courses</i>
Elective <i>College Test Prep</i>	Elective <i>College Test Prep</i>	*Dual Credit for MC Networking meets requirements for CTE completion	

Sample Coursework - Pathways in Network and Information Technology (P-TECH)
 Program Pathway - **5 Year Pathway Option** (Grade 9, Year 1, same as 4 Year Option)

This is a sample pathway schedule that may be tailored to meet a student's individual needs. In addition to program coursework, all students must take prescribed English, math, science, social studies, and all other courses required for a Maryland high school diploma AND Montgomery College (MC) AAS degree in Network and Information Technologies. Honors courses and Advanced Placement options are available for most academic subjects

Grade 10 Year 2 <i>On HS Campus</i>	Grade 11 Year 3 <i>On HS and MC Campus</i>	Grade 12 Year 4 <i>On MC Campus</i>	Year 5 <i>On MC Campus</i>
Summer Bridge Program <i>College Preparation Support offered every summer</i>			<i>Industry-related Work Experience After Grade 11</i>
English <i>English 10</i>	English <i>English 11</i>	English <i>MC English Course</i>	English <i>MC English Course</i>
Mathematics <i>Geometry, Algebra 2, or Pre-calculus</i>	Mathematics <i>Algebra 2, Precalculus, or AP Calculus AB/BC</i>	Mathematics <i>MC Math course</i>	
Science <i>10th Grade Science</i>			Science <i>MC Natural Science with Lab</i>
Social Studies <i>National, State, & Local Government</i>	Social Studies <i>Modern World History</i>		<i>MC Behavioral and Social Science Course</i>
Fine Arts Elective <i>MC Arts or Music Elective</i>			
Program Coursework <i>Network Operations 1</i>	Program Coursework* <i>MC Networking Courses</i> <i>MC Communications Course</i>	Program Coursework* <i>MC Networking and Computer Science Courses</i>	Program Coursework* <i>MC Networking and Computer Science Courses</i>
Elective <i>College Test Prep Elective</i>	Elective <i>College Test Prep Elective</i>		

Sample Coursework - Pathways in Network and Information Technology (P-TECH)

Program Pathway - **6 Year Pathway Option** (Grades 9 & 10, Years 1 & 2, same as 4 Year Option)

This is a sample pathway schedule that may be tailored to meet a student's individual needs. In addition to program coursework, all students must take prescribed English, math, science, social studies, and all other courses required for a Maryland high school diploma AND Montgomery College (MC) AAS degree in Network and Information Technologies. Honors courses and Advanced Placement options are available for most academic subjects.

Grade 11 Year 3 <i>On HS Campus</i>	Grade 12 Year 4 <i>On HS Campus</i>	Year 5 <i>On MC Campus</i>	Year 6 <i>On MC Campus</i>
Summer Bridge Program <i>College Preparation Support offered every summer</i>			<i>Industry-related Work Experience After Grade 11</i>
English <i>English 11</i>	English <i>English 12</i>	English <i>MC English Course</i>	English <i>MC English Course</i>
Mathematics <i>Algebra 2</i>	Mathematics <i>Precalculus or AP Calculus AB/BC</i>	Mathematics <i>MC Math course</i>	
Science <i>11th Grade Science</i>		Science <i>MC Natural Science with Lab</i>	
			Social Studies <i>MC World History and Behavioral Social Science Course</i>
Program Coursework* <i>Network Operations 1</i>	Program Coursework* <i>Network Operations 2</i>	Program Coursework* <i>MC Networking and Computer Science Courses</i>	Program Coursework* <i>MC Networking and Computer Science Courses</i>
Elective	<i>MC Communications Course</i>		