



STEMM Technical Middle College at HCC  
*...Accelerating Your Future...*

### Introduction

The Science, Technology, Engineering, Math, and Medical Technical Middle College (STMC) is a collaboration between Hagerstown Community College and Washington County Public Schools. It provides an exciting and unique opportunity for highly able Washington County students to jump-start their futures by completing high school graduation requirements through an on-campus college experience. Students complete college-level credit courses to satisfy high school requirements, while simultaneously earning credits toward a college credential in a high-demand STEM field. In many cases, students can earn a college certificate or 2-year degree by the time they would normally receive their high school diploma.

It is assumed that students who begin the STMC as high school juniors have completed up to 14 or more of the 24 credits required for high school graduation as a University of Maryland completer. By participating in and completing the STMC, a high school student can acquire additional high school/college dual-credits from 2 math courses, 2 English courses, a World History course and various elective courses. Students who begin STMC as seniors will, of course, have completed more required high school credits than students who begin as juniors and will therefore need fewer dual-credit courses to graduate.

The program pathways included are representations of what can be accomplished in two years of STMC. Some courses listed in the program pathways will meet specific high school diploma requirements; however, all courses will count for college credit as either program requirements, general education requirements, or electives. Juniors and seniors in the STMC will meet with the STMC Coordinator/Counselor to review specific academic/career plans at least four times/year to set schedules based on the exact courses needed.

Actual student program schedules may vary somewhat from the examples given.

The following considerations may affect student schedules and time to completion:

- Courses (especially math and science) already completed (high school and ESSENCE) or completed during summer sessions.
- High School grade-level status (Junior or Senior) when entering STMC.
- Courses accepted for high school credit.
- Course/program electives required by preferred future transfer institutions.
- Changing to a different program prior to program completion.
- General Education and Elective selections, depending on availability and student interest.

For students who are willing and able, the HCC/WCPS STEMM Technical Middle College can be two years that will revolutionize their academic, intellectual and professional lives.



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**STEMM  
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Courses that fulfill high school graduation requirements are indicated with an \*asterisk. Unmarked courses may count towards high school elective requirements as well as towards the college credential. Students will take a year-long course each year with other Middle College students. These courses are indicated with "Cohort" after the course number.

Some programs may require students to occasionally take a course in the evening, online, or as a hybrid. Students who take courses in a sequence other than indicated by the pathway may need more than four semesters to complete the degree. Please visit the Hagerstown Community College online catalog for more details: <http://catalog.hagerstowncc.edu>

Associate of Applied Science (A.A.S.) - Advanced Manufacturing					
Middle College					
<b>First Year Fall</b>			<b>First Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*ENG 101	*English Composition	3	*ENG 102	*Composition and Literature	3
*MAT 101 or MAT 114	*College Algebra or Introduction to Applied Algebra	3	ELE 113	Instrumentation and Process Control I	3
ELE 158	Circuits, Schematics, and Test Equipment	3	ELE 103	Analog and Digital Electronics	3
INT 101	Introduction to Industrial Technology	3	ADM 258	Advanced Motors, Machines, and Devices	3
ELE 110	Fundamentals of Electricity	4	INT 102	Introduction to PLCs	3
SOCI 104-Cohort	Sociology of Science and Technology	1.5	SOCI 104-Cohort	Sociology of Science and Technology	1.5
<b>TOTAL</b>		<b>17.5</b>			<b>16.5</b>
<b>Second Year Fall</b>			<b>Second Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3	Gen Ed	Diversity	3
*PHY 201	*General Physics I	4	*HIS 102	*World History II	3
ADM 201	Lean Manufacturing and Quality Assurance	2	EGT 150	Introduction to CNC Programming	3
CSC 132	Introduction to C and C++ Programming	3	EGT 235 or ADM 269	Fluid Power or Internship	3
ELE 203	PLC Applications	3	ELE 140	Introduction to Robotics	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>



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Associate of Applied Science (A.A.S.) - Alternative Energy Technology		
Middle College		
<b>First Year Fall</b>		
Course Number	Course Name	Credits
*ENG 101	*English Composition	3
*MAT 114	*Introduction to Applied Algebra	3
INT 101	Introduction to Industrial Technology	3
ELE 110	Fundamentals of Electricity	4
AET 102	Introduction to Alternative Energy	3
SOCI 104-Cohort	Sociology of Science and Technology	1.5
<b>TOTAL</b>		<b>17.5</b>
<b>Second Year Fall</b>		
Course Number	Course Name	Credits
*HIS 102	*World History II	3
*PHY 201	*General Physics I	4
AET 106	Photovoltaic Installation	3
AET 101	Applied Mathematics for Technology	1
BUS 145	Customer Service	1
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3
<b>TOTAL</b>		<b>15</b>
<b>First Year Spring</b>		
Course Number	Course Name	Credits
*ENG 102	*Composition and Literature	3
ELE 113	Instrumentation and Process Control	3
INT 105	Plumbing and Pipefitting	3
INT 104	Facilities Safety and Compliance	3
INT 107	Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC)	3
SOCI 104-Cohort	Sociology of Science and Technology	1.5
<b>TOTAL</b>		<b>16.5</b>
<b>Second Year Spring</b>		
Course Number	Course Name	Credits
Gen Ed	Diversity	3
INT 111	Pump and Motor Operation and Maintenance	3
AET 108	Wind Energy Installation	3
AET 104	Geo-Thermal Installation	3
Restricted Elective	Choose from the list	3
<b>TOTAL</b>		<b>15</b>



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Associate of Applied Science (A.A.S.) - Biotechnology					
Middle College					
<b>First Year Fall</b>			<b>First Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*ENG 101	*English Composition	3	*ENG 102	*Composition and Literature	3
*MAT XX	*Choose from approved high school list	3	BTC 101	Introduction to Biotechnology	3
BIO 113	Principles of Biology	4	BIO 201	Cellular Biology and Genetics	4
*CHM 101 or 103	*Introductory College Chemistry or General Chemistry I	4	*MAT 109	*Introduction to Statistics	3
SOCI 104-Cohort	Sociology of Science and Technology	1.5	SOCI 104-Cohort	Sociology of Science and Technology	1.5
<b>TOTAL</b>		<b>15.5</b>	<b>TOTAL</b>		<b>14.5</b>
<b>Second Year Fall</b>			<b>Second Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
BIO 205	Microbiology	4	Gen Ed	Diversity	3
BTC 201	Discovery Research	4	Restricted Elective	Choose from the list	4
*HIS 102	*World History II	3	BTC 202	Biomufacturing	4
Restricted Elective	Choose from the list	4	BTC 269	Internship	3
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3	Restricted Elective	Choose from the list	4
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>18</b>



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Associate of Applied Science (A.A.S.) - Cybersecurity					
Middle College					
First Year Fall			First Year Spring		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*ENG 101	*English Composition	3	*ENG 102	*Composition and Literature	3
*MAT XX	*Math course from approved high school list	3	IST 109	UNIX/Linux Operating System	3
IST 108	Microsoft Operating System	3	IST 154	Networking Basics	3
CYB 101	Introduction to Cybersecurity	3	IST 160	Introduction to Security Fundamentals	3
SOC 104-Cohort	Sociology of Science and Technology	1.5	CYB 210	Ethics in the Information Age	3
*HIS 102	*World History II	3	SOC 104-Cohort	Sociology of Science and Technology	1.5
<b>TOTAL</b>		<b>16.5</b>	<b>TOTAL</b>		<b>16.5</b>

Second Year Fall		
Course Number	Course Name	Credits
IST 155	Networking I	4
IST 156	Networking II	4
CYB 225	Tactical Perimeter Defense	3
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3
CYB 240	Ethical Hacking Fundamentals	3
<b>TOTAL</b>		<b>17</b>

Second Year Spring		
Course Number	Course Name	Credits
*Gen Ed	*Biological/Physical Science with a lab from approved high school list	4
Gen Ed	Diversity	3
IST 261	Server Management I	3
CYB 246	Introduction to Cloud Computing	3
<b>TOTAL</b>		<b>13</b>



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Associate of Applied Science (A.A.S.) in Dental Hygiene			
Middle College			
<b>First Year Fall</b>			
Course Number	Course Name		Credits
*ENG 101	English Composition		3
*MAT XX	Mathematics from approved high school list (MAT 109 preferred)		3
BIO 116	Human Anatomy and Physiology for Allied Health		4
*CHM 101	Introductory College Chemistry		4
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum		3
<b>TOTAL</b>			<b>17</b>
<b>Second Year Fall</b>			
Course Number	Course Name		Credits
DHY 101	Dental Hygiene Theory I		2
DHY 102	Dental Hygiene Clinical I		2
DHY 104	Dental Radiology		3
DHY 108	Head, Neck and Oral Anatomy		4
<b>TOTAL</b>			<b>11</b>
<b>Third Year Fall</b>			
Course Number	Course Name		Credits
DHY 201	Dental Hygiene Theory III		2
DHY 202	Dental Hygiene Clinical III		3
DHY 203	Periodontics and Advanced Procedures		4
DHY 204	Pain Management in Dental Hygiene		2
DHY 205	Nutrition and Biochemistry in Dentistry		2
<b>TOTAL</b>			<b>13</b>
<b>First Year Spring</b>			
Course Number	Course Name		Credits
SPD 108	Introduction to Human Communication		3
*HIS 102	World History II		3
PSY 101	General Psychology		3
BIO 205	Microbiology		4
<b>TOTAL</b>			<b>13</b>
<b>Second Year Spring</b>			
Course Number	Course Name		Credits
DHY 110	Dental Hygiene Theory II		2
DHY 111	Dental Hygiene Clinical II		2
DHY 112	Dental Materials and Procedures		2
DHY 113	General and Oral Pathology		2
DHY 116	Dental Pharmacology		2
<b>TOTAL</b>			<b>10</b>
<b>Third Year Spring</b>			
Course Number	Course Name		Credits
DHY 210	Community Dental Health		2
DHY 211	Dental Hygiene Ethics and Jurisprudence		1
DHY 220	Dental Hygiene Theory IV		2
DHY 221	Dental Hygiene Clinical IV		4
<b>TOTAL</b>			<b>9</b>



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Associate of Applied Science (A.A.S.) - Digital Instrumentation and Process Control					
Middle College					
<b>First Year Fall</b>			<b>First Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*ENG 101	*English Composition	3	*ENG 102	*Composition and Literature	3
*MAT 101 or 114	*College Algebra or Introduction to Applied Algebra	3	ELE 101	Device Data System Architectures	3
ELE 110	Fundamentals of Electricity	3	ELE 103	Analog and Digital Electronics	3
INT 101	Introduction to Industrial Technology	3	ELE 113	Instrumentation and Process Control I	4
IST 102	Introduction to Information Technology	3	INT 102	Introduction to PLCs	3
SOC 104-Cohort	Sociology of Science and Technology	1.5	SOC 104-Cohort	Sociology of Science and Technology	1.5
<b>TOTAL</b>		<b>16.5</b>	<b>TOTAL</b>		<b>17.5</b>
<b>Second Year Fall</b>			<b>Second Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
ELE 205	Repair and Maintenance for Instrumentation	2	*HIS 102	*World History II	3
ELE 210	Energy System Management	3	Gen Ed	Diversity	3
ELE 213	Instrumentation and Process Control II	3	ELE 235	Advanced Concepts and Applications of Instrumentation and Controls	3
*PHY 201	*General Physics I	4	Restricted Elective	Choose from the list	3
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3	Restricted Elective	Choose from the list	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>



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Associate of Applied Science (A.A.S.) - Mechanical Engineering Technology					
Middle College					
<b>First Year Fall</b>			<b>First Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*ENG 101	*English Composition	3	*ENG 102	*Composition and Literature	3
*MAT 114 or 102	*Introduction to Applied Algebra or Trigonometry	3	EGT 231	Strength of Materials	3
Gen Ed	Diversity	3	CAD 153	Computer-Aided Drafting	3
EGT 235	Fluid Power	3	EGT 136	Mechanics	3
CAD 152	Computer-Aided Design	3	EGT 101	Foundations of Engineering	2
SOC 104-Cohort	Sociology of Science and Technology	1.5	SOC 104-Cohort	Sociology of Science and Technology	1.5
<b>TOTAL</b>		<b>16.5</b>	<b>TOTAL</b>		<b>15.5</b>
<b>Second Year Fall</b>			<b>Second Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*PHY 201	*General Physics I	4	PHY 202	General Physics II	4
EGT 234	Machine Design	4	Restricted Elective	Choose from the list	4
*HIS 102	*World History II	3	Restricted Elective	Choose from the list	3
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3	Restricted Elective	Choose from the list	3
<b>TOTAL</b>		<b>14</b>	<b>TOTAL</b>		<b>14</b>





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Associate of Applied Science (A.A.S.) - Paramedic Emergency Services							
<b>First Year Fall</b>				<b>First Year Spring</b>			
Course Number	Course Name	Credits		Course Number	Course Name	Credits	
*ENG 101	English Composition	3		*ENG 102	*Composition and Literature	3	
*MAT 101 or 114	College Algebra or Introduction to Applied Algebra	3		*HIS 102	*World History II	3	
*BIO 103	*Human Anatomy and Physiology	4		BIO 104	Human Anatomy and Physiology II	4	
PSY 101 or SOC 101	General Psychology or Intro to Sociology	3		Gen Ed	Diversity	3	
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3					
<b>TOTAL</b>		<b>16</b>		<b>TOTAL</b>		<b>13</b>	
<b>Summer</b>							
Course Number	Course Name	Credits					
EMS 151	Introduction to Emergency Medical Services	3					
EMS 155	Anatomy and Physiology for EMS Providers	4					
EMS 181	EMS Practicum	1					
<b>TOTAL</b>		<b>8</b>					
<b>Second Year Fall</b>				<b>Second Year Spring</b>			
Course Number	Course Name	Credits		Course Number	Course Name	Credits	
EMS 163	Medical Emergencies I	3		EMS 201	Shock Trauma Resuscitation	2	
EMS 164	Cardiology and Cardiovascular Diseases	4		EMS 211	Pediatrics and Special Populations	2	
EMS 182	EMS Practicum II	3		EMS 220	EMS Operations	2	
EMS 210	Medical Emergencies II	3		EMS 221	Seminar in Paramedic Emergency Services	2	
EMS 161	Airway Management	3		EMS 281	EMS Practicum III	3	
				EMS 282	EMS Practicum IV	3	
<b>TOTAL</b>		<b>16</b>		<b>TOTAL</b>		<b>14</b>	



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Associate of Applied Science (A.A.S.) in Radiography					
<b>First Year Fall</b>			<b>First Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*ENG 101	*English Composition	3	*ENG 102	*Composition and Literature	3
*MAT XX	*Choose from approved high school list	3	*HIS 102	*World History II	3
*BIO 103	*Human Anatomy and Physiology I	4	BIO 104	Human Anatomy and Physiology II	4
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3	PSY 101	General Psychology	3
<b>TOTAL</b>		<b>13</b>	<b>TOTAL</b>		<b>13</b>
<b>First Summer</b>			<b>Second Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
RAD 101	Radiography I	3	RAD 105	Radiographic Positioning III	3
RAD 103	Radiographic Positioning II	3	RAD 108	Clinical Technique II	2
<b>TOTAL</b>		<b>6</b>	PHY 106	Radiological Physics Theory	3
<b>Second Year Fall</b>			<b>TOTAL</b>		<b>8</b>
Course Number	Course Name	Credits	<b>Third Year Spring</b>		
RAD 102	Radiography II	3	Course Number	Course Name	Credits
RAD 104	Radiographic Positioning II	3	RAD 215	Pathology for Imaging Sciences	3
RAD 106	Clinical Technique I	2	RAD 111	Clinical Technique IV	3
<b>TOTAL</b>		<b>8</b>	RAD 228	Review Seminar	3
<b>Second Summer</b>			<b>TOTAL</b>		<b>9</b>
Course Number	Course Name	Credits	<b>Third Year Fall</b>		
RAD 200	Clinical Practicum	3	Course Number	Course Name	Credits
BIO 202	Radiation Biology	2	RAD 201	Radiographic Imaging Concepts	3
RAD 110	Venipuncture for Radiographers	1	RAD 202	Advanced Medical Imaging Concepts	3
<b>TOTAL</b>		<b>6</b>	RAD 212	Cross-Sectional Anatomy	3
<b>Third Year Fall</b>			RAD 205	Clinical Technique III	3
Course Number	Course Name	Credits	<b>TOTAL</b>		<b>12</b>
RAD 201	Radiographic Imaging Concepts	3			
RAD 202	Advanced Medical Imaging Concepts	3			
RAD 212	Cross-Sectional Anatomy	3			
RAD 205	Clinical Technique III	3			
<b>TOTAL</b>		<b>12</b>			



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Associate of Applied Science (A.A.S.) in Information Systems Technology, Option in Simulation and Digital Entertainment					
<b>First Year Fall</b>			<b>First Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*ENG 101	*English Composition	3	*ENG 102	*Composition and Literature	3
*MATXX	*Choose from approved high school list	3	SDE 102	Multimedia Authoring	3
IST 102	Introduction to Information Technology	3	SDE 130	Introduction to Object Oriented Programming	3
GDT 112	Computer Graphics	3	Restricted Elective	Choose from the list	3
WEB 101	Web Design I	3	SOCI 104-Cohort	Sociology of Science and Technology	1.5
SOCI 104-Cohort	Sociology of Science and Technology	1.5	*HIS 102	*World History II	3
<b>TOTAL</b>		<b>16.5</b>	<b>TOTAL</b>		<b>16.5</b>
<b>Second Year Fall</b>			<b>Second Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*Gen Ed	*Biological/Physical Science with a lab from approved high school list	4	Gen Ed	Diversity	3
CSC 132or GDT 116 or WEB 215	Introduction to C and C++ Programming or Digital Imaging or Javascript and Multitmedia	3	SDE 207	Multimedia Project Development	3
SDE 201	Multimedia Algorithms	3	SDE 104 or GDE 142	Game Programming I or Computer Illustration	3
Restricted Elective or SDE 203 or WEB 115	Choose from the list or 3D Avanced Animation or Web Developer I	3	SDE 205 or Restricted Elective	Game Programming II or Choose from the list	3
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3	Restricted Elective	Choose from the list	3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>15</b>



Stay close. Go far.

**STEMM  
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Middle  
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Associate of Applied Science (A.A.S.) - Web and Multimedia Technology					
Middle College					
<b>First Year Fall</b>			<b>First Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*ENG 101	*English Composition	3	*ENG 102	*Composition and Literature	3
*MAT XX	*Math course from approved high school list	3	IST 173	Database Fundamentals	3
WEB 101	Web Design I	3	WEB 115	Web Developer I	3
GDT 112	Computer Graphics	3	WEB 110	Web Design II	3
SOC 104-Cohort	Sociology of Science and Technology	1.5	GDT 116	Digital Imaging	3
			SOC 104-Cohort	Sociology of Science and Technology	1.5
<b>TOTAL</b>		<b>13.5</b>	<b>TOTAL</b>		<b>16.5</b>
<b>Second Year Fall</b>			<b>Second Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*Gen Ed	*Biological/Physical Science with a lab from the approved high school list	4	BUS 101	Introduction to Business Organization and Management	3
*HIS 102	*World History II	3	STU 106	Professionalism in the Workplace	1
WEB 215	JavaScript and Multimedia	3	WEB 220	Introduction to Content Management Systems	2
WEB 210	Web Developer II	3	Restricted Elective	Choose from the list	3
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3	Restricted Elective	Choose from the list	3
			Elective	Choose in consultation with an advisor	2
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>14</b>



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Associate of Science (A.S.) - Arts and Sciences, Option in Biology					
Middle College					
First Year Fall			First Year Spring		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*ENG 101	*English Composition	3	*ENG 102	*Composition and Literature	3
*MAT XX	*Math course from approved high school list	3	Gen Ed	Arts/Humanities (in different discipline than HUM)	3
*CHM 103	*General Chemistry I	4	CHM 104	General Chemistry II	4
BIO 113	Principles of Biology I	4	BIO 114	Principles of Biology II	4
SOC 104-Cohort	Sociology of Science and Technology	1.5	SOC 104-Cohort	Sociology of Science and Technology	1.5
<b>TOTAL</b>		<b>15.5</b>	<b>TOTAL</b>		<b>15.5</b>
Second Year Fall			Second Year Spring		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*HIS 102	*World History II	3	Gen Ed	Diversity	3
CHM 203 and/or PHY 201	Organic Chemistry I and/or General Physics I	4	CHM 204 and/or PHY 202	Organic Chemistry II and/or General Physics II	4
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3	BIO 201 or 205	Cell Biology and Genetics or Microbiology	4
Elective	If not completing both Organic Chemistry and Physics sequences	4	Elective	If not completing both Organic Chemistry and Physics sequences	4
<b>TOTAL</b>		<b>14</b>	<b>TOTAL</b>		<b>15</b>



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**STEMM  
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Associate of Science (A.S.) - Arts and Sciences, Option in Chemistry		
Middle College		
<b>First Year Fall</b>		
Course Number	Course Name	Credits
*ENG 101	*English Composition	3
*MAT 203	*Calculus I	4
*CHM 103	*General Chemistry I	4
Gen Ed	Arts/Humanities (in a different discipline than HUM)	3
SOC 104-Cohort	Sociology of Science and Technology	1.5
<b>TOTAL</b>		<b>15.5</b>
<b>Second Year Fall</b>		
Course Number	Course Name	Credits
Gen Ed	Diversity	3
CHM 203	Organic Chemistry I	4
PHY 201 or PHY 203	General Physics I or Principles of Physics I (5 credits)	4
Elective	Choose in consultation with advisor	3
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3
<b>TOTAL</b>		<b>17</b>
<b>First Year Spring</b>		
Course Number	Course Name	Credits
*ENG 102	*Composition and Literature	3
*HIS 102	*World History II	3
CHM 104	General Chemistry II	4
Elective	Choose in consultation with advisor	2
SOC 104-Cohort	Sociology of Science and Technology	1.5
		<b>13.5</b>
<b>Second Year Spring</b>		
Course Number	Course Name	Credits
Elective	Choose in consultation with advisor	3
CHM 204	Organic Chemistry II	4
PHY 202 or PHY 204	General Physics II or Principles of Physics (5 credits)	4
Elective	Choose in consultation with advisor	3
<b>TOTAL</b>		<b>14</b>



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Associate of Science (A.S.) - Computer Science					
Middle College					
First Year Fall			First Year Spring		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*ENG 101	*English Composition	3	*ENG 102	*Composition and Literature	3
*MAT 203	*Calculus I	4	Gen Ed	Arts/Humanities (in a different discipline than HUM)	3
Gen Ed	Diversity	3	Elective	Choose in consultation with advisor	3
CSC 102	Introduction to Information Technology	3	Restricted Elective	Choose from List 2	4
SOC 104-Cohort	Sociology of Science and Technology	1.5	SOC 104-Cohort	Sociology of Science and Technology	1.5
<b>TOTAL</b>		<b>14.5</b>	<b>TOTAL</b>		<b>14.5</b>
Second Year Fall			Second Year Spring		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*Gen Ed	*Biological/Physical Science with lab from the approved high school list	4	Gen Ed	Biological/Physical Science (of your two Science requirements, one must have a lab)	3
CSC 132 or 134	Introduction to C and C++ Programming OR Introduction to JAVA Programming	3	Elective	Choose in consultation with advisor	2
Restricted Elective	Choose from List 2	4	Elective	Choose in consultation with advisor	3
*HIS 102	*World History II	3	Elective	Choose in consultation with advisor	3
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3	Restricted Elective	Choose from List 1	3
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>14</b>

List 1: CSC 109, CSC 202, CSC 232, IST 154, IST 160

List 2: MAT 204, MAT 206, MAT 207, MAT 208



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Associate of Science (A.S.) - Cybersecurity					
Middle College					
First Year Fall			First Year Spring		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*ENG 101	*English Composition	3	*ENG 102	*Composition and Literature	3
*MAT XX	*Math course from approved high school list	3	*Gen Ed	*Biological/Physical Science from the approved high school list	4
Gen Ed	Diversity	3	IST 154	Networking Basics	3
CYB 101	Introduction to Cybersecurity	3	IST 160	Introduction to Security Fundamentals	3
SOC 104-Cohort	Sociology of Science and Technology	1.5	SOC 104-Cohort	Sociology of Science and Technology	1.5
<b>TOTAL</b>		<b>13.5</b>	<b>TOTAL</b>		<b>14.5</b>
Second Year Fall			Second Year Spring		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
Gen Ed	Biological/Physical Science (of your two Science requirements, one must have a lab)	3	Restricted Elective	Choose from the list	3
CSC 132	Introduction to C and C++ Programming	3	Gen Ed	Arts/Humanities (in a different discipline than HUM)	3
CYB 210	Ethics in the Information Age	3	CYB 225	Tactical Perimeter Defense	3
IST 166	Computer Forensics I - Principles and Practices	3	Restricted Elective	Choose from the list	3
*HIS 102	*World History II	3	Elective	Choose in consultation with an advisor	2
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3			
<b>TOTAL</b>		<b>18</b>	<b>TOTAL</b>		<b>14</b>





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Associate of Science (A.S.) in Engineering					
Middle College					
<b>First Year Fall</b>			<b>First Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*ENG 101	*English Composition	3	*ENG 102	*Composition and Literature	3
*MAT 203	*Calculus I	4	MAT 204	Calculus II	4
*HIS 102	*World History II	3	Gen Ed	Diversity	3
EGR 103	Introduction to Engineering	3	EGR 108	Statics	3
SOCI 104-Cohort	Sociology of Science and Technology	1.5	SOCI 104-Cohort	Sociology of Science and Technology	1.5
<b>TOTAL</b>		<b>14.5</b>	<b>TOTAL</b>		<b>14.5</b>
<b>Second Year Fall</b>			<b>Second Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
Gen Ed	Arts/Humanities (in a different discipline from the first)	3	PHY 204	Principles of Physics II	5
*PHY 203	*Principles of Physics I	5	MAT 206	Differential Equations	4
Restricted Elective	Choose from the list (3-4 credits)	4	EGR 203, 204, or 208	Mechanics of Materials or Dynamics or Systems and Circuits	3
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3	Restricted Elective	Choose from the list (3-4 credits)	4
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>16</b>



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Associate of Science (A.S.) - Arts and Sciences, Option in Mathematics					
Middle College					
<b>First Year Fall</b>			<b>First Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*ENG 101	*English Composition	3	*ENG 102	*Composition and Literature	3
*MAT 203	*Calculus I	4	Gen Ed	Arts/Humanities (in different discipline than HUM)	3
Gen Ed	Diversity	3	MAT 204	Calculus II	4
Elective	Choose in consultation with advisor	3	Elective	Choose in consultation with advisor	3
SOC 104-Cohort	Sociology of Science and Technology	1.5	SOC 104-Cohort	Sociology of Science and Technology	1.5
<b>TOTAL</b>		<b>14.5</b>	<b>TOTAL</b>		<b>14.5</b>
<b>Second Year Fall</b>			<b>Second Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*HIS 102	*World History II	3	Gen Ed	Biological/Physical Science with a lab	4
*Gen Ed	*Biological/Physical Science with lab from the approved high school list	4	MAT 205 or MAT 206	Calculus III or Differential Equations	4
MAT 207 or 208	Discrete Math or Linear Algebra	4	Elective	Choose in consultation with advisor	3
Elective	Choose in consultation with advisor	3	Elective	Choose in consultation with advisor	3
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3			
<b>TOTAL</b>		<b>17</b>	<b>TOTAL</b>		<b>14</b>



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»Please Note: Some courses may have an age requirement to enroll«

Associate of Science in Arts and Sciences (A.S.) in Nursing (Registered Nurse)					
<b>First Year Fall</b>			<b>First Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*ENG 101	*English Composition	3	*ENG 102	*Composition and Literature	3
*MAT XX	*Mathematics	3	*HIS 102	*World History II	3
*BIO 103	*Human Anatomy and Physiology I	4	PSY 204	Developmental Psychology: Lifespan Human Development	3
PSY 101	General Psychology	3	BIO 104	Human Anatomy and Physiology II	4
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3	CHM 101	Introductory College Chemistry (Only if HS Chemistry has not been taken)	
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>13</b>
<b>Second Year Fall</b>			<b>Second Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
SOC 101	Introduction to Sociology	3	BIO 205	Microbiology	4
NUR 116	Foundations of Nursing I	3	NUR 127	Nursing Care of Children	4
NUR 117	Foundations of Nursing II	6	NUR 229	Nursing Care of the Acute and Chronically II Adult	4
<b>TOTAL</b>		<b>12</b>	<b>TOTAL</b>		<b>12</b>
<b>Third Year Fall</b>			<b>Third Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
NUR 126	Nursing Care of Women and Infants	4	NUR 230	Nursing Care of the Acute and Chronically III Adult II	4
NUR 226	Behavioral Health Nursing	4	NUR 228	Contemporary Trends in Nursing and Leadership	2
NUR 224	Pharmacology for Nursing Practice	2	NUR 231	Nursing Care of the Acute and Chronically III Adult III	4
<b>TOTAL</b>		<b>10</b>	<b>TOTAL</b>		<b>10</b>



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Associate of Science (A.S.) - Arts and Sciences, Option in Physics					
Middle College					
<b>First Year Fall</b>			<b>First Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*ENG 101	*English Composition	3	*ENG 102	*Composition and Literature	3
*MAT 203	*Calculus I	4	PHY 204	Principles of Physics II	5
Gen Ed	Diversity	3	PHY 205	Principles of Physics III	1
*PHY 203	*Principles of Physics I	5	MAT 204	Calculus II	4
SOC 104-Cohort	Sociology of Science and Technology	1.5	SOC 104-Cohort	Sociology of Science and Technology	1.5
<b>TOTAL</b>		<b>16.5</b>	<b>TOTAL</b>		<b>14.5</b>
<b>Second Year Fall</b>			<b>Second Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*HIS 102	*World History II	3	Elective	Choose in consultation with advisor	3
Gen Ed	Arts/Humanities (in a different discipline than HUM)	3	MAT 205	Calculus III	4
Elective	Choose in consultation with advisor	3	MAT 206	Differential Equations	4
Elective	Choose in consultation with advisor	3	Elective	Choose in consultation with advisor	3
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>14</b>



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Associate of Science (A.S.) - Arts and Sciences, Option in Pre-Pharmacy					
Middle College					
<b>First Year Fall</b>			<b>First Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*ENG 101	*English Composition	3	*ENG 102	*Composition and Literature	3
*MAT 203	*Calculus I	4	Gen Ed	Arts/Humanities (in a different discipline than HUM)	3
*CHM 103	*General Chemistry I	4	CHM 104	General Chemistry II	4
Restricted Elective	Choose from the list	4	BIO 205	Microbiology	4
SOC 104-Cohort	Sociology of Science and Technology	1.5	SOC 104-Cohort	Sociology of Science and Technology	1.5
<b>TOTAL</b>		<b>16.5</b>	<b>TOTAL</b>		<b>15.5</b>
<b>Second Year Fall</b>			<b>Second Year Spring</b>		
Course Number	Course Name	Credits	Course Number	Course Name	Credits
*HIS 102	*World History II	3	Gen Ed	Diversity	3
CHM 203	Organic Chemistry I	4	CHM 204	Organic Chemistry II	4
PHY 201	General Physics I	4	Restricted Elective	Choose from the list	3
HUM 104-Cohort	The Arts and Sciences-A Curious Continuum	3	Restricted Elective	Choose from the list	4
<b>TOTAL</b>		<b>14</b>	<b>TOTAL</b>		<b>14</b>