

Career and Technology Education CTA

Start where you are.

Use what you have.

Do what you can.
-Arthur Ashe



**Calvert County Public Schools
2021-2022**

Calvert County High Schools

Calvert High School

520 Fox Run Blvd.
Prince Frederick, MD 20678
Mr. Darrel Prioleau, *Principal*
Main Office: 443-550-8880 Guidance Office: 443-550-8893

Huntingtown High School

4125 N. Solomons Island Road
Huntingtown, MD 20639
Mr. Rick Weber, *Principal*
Main Office: 443-550-8810 Guidance Office: 443-550-8816

Northern High School

2950 Chaneyville Road
Owings, MD 20736
Mr. Stephen Williams, *Principal*
Main Office: 443-550-8950 Guidance Office: 443-550-8941

Patuxent High School

12485 Southern Connector Blvd.
Lusby, MD 20657
Mr. Marcus Watson, *Principal*
Main Office: 443-550-8840 Guidance Office: 443-550-8855

Calvert County Middle Schools

Calvert Middle School

655 Chesapeake Blvd.
Prince Frederick, MD 20678
Ms. Rebecca Bowen, *Principal*
Main Office: 443-550-8970 Guidance Office: 443-550-8972

Mill Creek Middle School

12200 Southern Connector Blvd.
Lusby, MD 20657
Ms. Shelley Amstutz, *Principal*
Main Office: 443-550-9190 Guidance Office: 443-550-9203

Northern Middle School

2954 Chaneyville Road
Owings, MD 20736
Mr. Jaime Webster, *Principal*
Main Office: 443-550-8230 Guidance Office: 443-550-9228

Plum Point Middle School

1475 Plum Point Road
Huntingtown, MD 20639
Ms. Sabrina Bergen, *Principal*
Main Office: 443-550-9170 Guidance Office: 443-550-9175

Southern Middle School

9615 H. G. Trueman Road
Lusby, MD 20657
Ms. Cecelia Lewis, *Principal*
Main Office: 443-550-9250 Guidance Office: 443-550-9259

Windy Hill Middle School

9560 Boyds Turn Road
Owings, MD 20736
Mr. James Kurtz, *Principal*
Main Office: 443-550-9310 Guidance Office: 443-550-9313

Calvert County Special Schools & Centers

Career and Technology Academy

330 Dorsey Road
Prince Frederick, MD 20678
Mrs. Carrie Akins, *Principal*
Main Office: 443-550-9940 Guidance Office: 443-550-9972

Calvert Country School

1350 Dares Beach Road
Prince Frederick, MD 20678
Ms. Marcie Hough, *Principal*
Main Office: 443-550-9910

Board of Education of Calvert County

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Calvert County Public Schools

Divisions of Instruction & Student Services • 443-550-8000

1305 Dares Beach Road, Prince Frederick, MD 20678

Caylin Croce, CHS senior, designed the cover in 2019. She was a level II Graphics Arts student at the Career and Technology Academy and graduated in June 2020.

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- Director of Student Services
- Director of Human Resources
443-550-8000

For further information on notice of non-discrimination, visit for Office of Civil Rights Complaint Assessment System at: <https://ocrcas.ed.gov> or call 1-800-421-3481.

Anti-sexual, Anti-racial and Anti-disability Harassment Statement

Discrimination can manifest itself in behaviors such as bullying, harassment, or intimidation of individuals.

Calvert County Public Schools does not tolerate any form of harassment including, but not limited to, sexual, racial, or disability. Any individual (student, employee, or community member) who believes that he or she has been subjected to any form of harassment is encouraged to report the allegation of harassment. Students, parents and community members may report allegations of harassment to:

Ms. Kimberly Roof
Director of Student Services
Calvert County Public Schools
1305 Dares Beach Road
Prince Frederick, MD 20678

Employees may report allegations of harassment to:

Mr. Zachary Seawell
Director of Human Resources
Calvert County Public Schools
1305 Dares Beach Road
Prince Frederick, MD 20678

Calvert County Public Schools is committed to conducting a prompt investigation for any allegation of harassment. If harassment has occurred, the individual will be disciplined promptly. Disciplinary actions for students found to have engaged in any form of harassment may result in suspension or expulsion. Disciplinary actions for employees found to have engaged in any form of harassment may result in suspension or termination.

Calvert County Public Schools encourages all students, parents, employees, and community members to work together to prevent any form of harassment.

For further information on notice of non-discrimination, visit the Office for Civil Rights Complaint Assessment System at: <https://ocrcas.ed.gov> or call 1-800-421-3481.

Career & Technology Education

In order to receive a Maryland High School Diploma, students must complete a program of study, or pathway. There are two possible pathways. One is the College Preparatory Pathway. Another option for students is to complete a pathway in Career and Technology Education. Some students complete both and are considered dual completers.

Career and Technology Education (CTE) is relevant, authentic learning that gives students real job-related experiences and allows them to pursue areas of strength as well as areas of interest. It is this relevance and authenticity that provides students an educational program that truly prepares them for a career and/or college. In many CTE programs, students have an opportunity to earn college credits while still in high school.

Calvert County Public Schools offers a wide variety of CTE programs of study. Of these programs, thirteen are offered at the Career and Technology Academy (CTA), which is adjacent to Calvert High School's campus in Prince Frederick. All programs at the CTA are designed to prepare students for post-secondary education and/or employment. Programs at the CTA are two year programs. Students attend CTA in eleventh grade for level one and in twelfth grade for level two. Level one classes are generally two periods long and level two classes are three periods long. Students in level one classes also take their English course while at CTA (except students in Cosmetology or Firefighter/Emergency Medical Technician).

The comprehensive programs are open to all eleventh and twelfth-grade students. Students who are repeating tenth grade may enroll in Career and Technology Academy courses with their high school principal's permission. Priority for enrollment in level one courses is given to eleventh grade students. Twelfth graders are permitted to enroll in level one if space is available.

At CTA, Job Placement Services provide employment readiness training for career and technology education students in the thirteen program areas. Students learn to correctly complete a job application, resume, and cover letter, and will participate in individual job interviews. Seniors receive a portfolio which includes their transcript, resume, employability profile, and job application.

The CTE programs available at CTA are:

- Academy of Health Professions
- Auto Mechanics - Service Technician
- Carpentry
- CISCO Networking & Cybersecurity
- Cosmetology
- Culinary Arts
- Electricity
- Firefighter/Emergency Medical Technician
- Graphic Arts
- Home Improvement
- Interactive Media Production
- Plumbing, Heating, Ventilation, and Air Conditioning
- Welding

In addition to the CTE programs available at CTA, many Career and Technology Education programs are offered at the four high schools. These programs consist of three or four courses. Students may complete one of the following CTE programs without ever leaving their home school:

- Accounting
- Apprenticeship Maryland (pilot program)
- Business Administrative Services
- Business Management
- Career Research and Development
- Computer Science
- Criminal Justice/Law Enforcement
- Curriculum for Agricultural Science Education (CASE) – CHS only
- Naval Science/NJROTC
- Project Lead the Way – Biomedical Sciences
- Project Lead the Way – Pathway to Engineering
- Teacher Academy of Maryland (TAM)

Students who complete both a college prep pathway as well as a CTE pathway are referred to as Dual Completers. Dual completion provides students with more options upon graduating from high school. Students who graduate as dual completers are prepared to continue their education in college as well as to enter the workforce.

Articulation Agreements for Career Technology Education Programs of Study

The majority of the pathways have articulation agreements in place with community colleges, technical colleges or universities which provide college credit for the completion of high school courses. Some of the programs have a “memorandum of understanding” in place with a local union giving CCPS graduates a head start when joining a union. For more information, please call the CTA.

Below is a list of articulation agreements by program:

Pathways	Location of Program	Articulation
Academy of Health Professions	CTA	CSM
Accounting	Home High School	CSM
Automotive Service Technician	CTA	Advanced Technical Institute Community College of Baltimore County Nashville Auto Diesel College Ohio Technical College Pennsylvania College of Technology Universal Technical Institute University of Northwestern Ohio
Carpentry	CTA	Mid-Atlantic Carpenters Training Center
CASE	CHS	Rutgers University University of Maryland

Pathways	Location of Program	Articulation
CISCO Networking Academy	CTA	CSM
Criminal Justice/Law Enforcement	Home High School	CSM
Culinary Arts	CTA	Johnson & Wales University
Fire Fighter/EMT	CTA	University of Maryland
Graphic Arts	CTA	Boston University CSM
P-HVAC	CTA	CSM Unions
Interactive Media Production	CTA	CSM
Project Lead the Way-Pathway to Engineering	Home High School	CSM UMBC
Project Lead the Way-Biomedical Sciences	Home High School	CSM Stevenson University
Teacher Academy of Maryland	Home High School	Bowie State University Coppin State CSM Frostburg State University Hood College McDaniel College Morgan State University Salisbury University Stevenson University St. Mary's College of Maryland Towson University
Welding	CTA	Unions

The following programs are offered at each of the four home high schools:

Program	Course Number	Course Name	Credits
Accounting	5000	Principles of Business Administration and Management	1
	5050	Principles of Accounting	1
	5060	Advanced Accounting	1
Apprenticeship Maryland (Pilot)	8680	Apprenticeship Related Technical Instruction	1
	8681	Apprenticeship Work-Based Learning Experience I	1
	8682	Apprenticeship Work-Based Learning Experience II	1
	8683	Apprenticeship Work-Based Learning Experience III	1
Business Administrative Services	5000	Principles of Business Administration and Management	1
	5050	Principles of Accounting	1
	5030	Office Systems Management (Word/PowerPoint)	1
	5100	Office Systems Management (Excel/Access)	1
Business Management	5000	Principles of Business Administration and Management	1
	5050	Principles of Accounting	1
	5160	Advanced Business Management	1
Career Research and Development	8650	Career Research Development	1
	8660	Career Research Development Seminar	1
	8665	Work-Based Learning Experience	1
Computer Science	3505	Foundations of Computer Science	1
	3506	AP Computer Science Principles	1
	3511	App Development	1
	3519	AP Computer Science Coding OR Dual Enrollment (see 3519 for info)	1
Criminal Justice / Law Enforcement	2600	American Criminal Justice System	1
	2610	Juvenile Justice	1
	2620	Criminal Law	1
	2630	Criminal Investigation	2
Curriculum for Agricultural Science Education (CASE) (CHS only)	8035	Intro. to Agriculture, Food, and Natural Resources (AFNR)	1
	8036	Principles of Agricultural Science – Animal (ASA)	1
	8037	Animal and Plant Biotechnology	1
	8038	Agricultural Business, Research, and Development	1
Naval Science/ NJROTC	7210	Naval Science I	1
	7220	Naval Science II	1
	7230	Naval Science III	1
Project Lead the Way – Biomedical Sciences	8025	Principles of Biomedical Sciences	1
	8026	Human Body Systems	1
	8027	Medical Interventions	1
	8028	Biomedical Innovation	1
Project Lead the Way – Pathway to Engineering	8005	Introduction to Engineering Design (Prerequisite course)	1
	8006	Principles of Engineering	1
	8007	Digital Electronics	1
	8008	Aerospace Engineering	1
	8011	OR Civil Engineering and Architecture	1
	8009	Engineering Design and Development	1
Teacher Academy of Maryland (TAM)	5500	Human Growth and Development through Adolescence	1
	5510	Teaching as a Profession	1
	5520	Foundations of Curriculum and Instruction	1
	5530	Education Academy Internship	1

The following programs are offered at the Career and Technology Academy (CTA):

Program	Course Number	Course Name	Credits
Academy of Health Professions	8061	Academy of Health Professions I	2
	8071 8072	Academy of Health Professions II Track A (CCMA) OR Academy of Health Professions II Track B (Physical Rehabilitation)	3
Auto Mechanics – Service Tech.	8941	Service Technician I	2
	8951	Service Technician II	3
Carpentry	8271	Carpentry I	2
	8281	Carpentry II	3
CISCO Networking & Cybersecurity	8441	PC Troubleshooting and Introduction to Network Engineering	2
	8452	Cyber Security and Network Engineering	3
Cosmetology	8360	Cosmetology I	3
	8371	Cosmetology II	3
Culinary Arts	8511	Culinary Arts I	2
	8521	Culinary Arts II	3
Electricity	8411	Electricity I	2
	8421	Electricity II	3
Firefighter/Emergency Medical Tech	8994	Fire and Rescue I	3
	8997	Fire and Rescue II	3
Graphic Arts	8611	Graphic Arts I	2
	8621	Graphic Arts II	3
Home Improvement	8871	Home Improvement I	2
	8881	Home Improvement II	3
Interactive Media Production	8631	Interactive Media Production I	2
	8641	Interactive Media Production II	3
Plumbing, Heating, Ventilation, and Air Conditioning	8124	Heating, Ventilation, and Air Conditioning I	2
	8125	Heating, Ventilation, and Air Conditioning II	3
Welding	8911	Welding I	2
	8921	Welding II	3

Four Year Plans

As students prepare to enter high school, it is important that they make informed decisions about their proposed programs of study. To help students make sure that they are able to meet all graduation requirements, including completing a pathway, it is recommended that students, parents, and counselors work together to complete a **Four Year Plan**. This may seem overwhelming to an 8th grade student.

In order to make the process a little less difficult, the following pages provide examples of possible four year plans. There are two sample plans for each of the CTE programs. These samples include four year plans for students who wish to become dual completers (i.e., students who wish to complete a CTE pathway as well as the College Prep pathway). For three CTE programs (PLTW Engineering, PLTW Biomedical Sciences, and Teacher Academy of Maryland), only the dual completer four year plan is shown.

The plans shown are only samples. Within each program, there is room for variation. Also, students' four year plans can change as they progress through high school. However, by taking the time to carefully plan out each year's schedule ahead of time, students, parents, and counselors can ensure that all requirements are met.

**Academy of Health Professions
Recommended Course Sequence**

Maryland Career Cluster 6: Health and Biosciences

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Academy of Health Professions I (2 credits)	Academy of Health Professions II Track A or B (3 credits)
Electives	Elective	Elective Computer Keyboarding for College and Career (1/2 credit)	Travel or Elective	Travel, Elective, or Work-Based Learning

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Licensed Practical Nurse, Nurse Assistant, Massage Therapist, Physical Therapy Assistant, Occupational Therapy Assistant, Pharmacy Technician, Medical Lab Technician	Physician Assistant, Dietician/Nutritionist, Occupational Therapist, Medical Technician, Surgical Technician, Registered Nurse, Chiropractor, Pharmacist, Audiologist, Speech and Language Pathologist

**Academy of Health Professions Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 6: Health and Biosciences

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Academy of Health Professions I (2 credits)	Academy of Health Professions II Track A or B (3 credits)
Electives	World Language	World Language Computer Keyboarding for College and Careers (1/2 credit)	Travel or Elective	Travel, Elective, or Work-Based Learning

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Licensed Practical Nurse, Nurse Assistant, Massage Therapist, Physical Therapy Assistant, Occupational Therapy Assistant, Pharmacy Technician, Medical Lab Technician	Physician Assistant, Dietician/Nutritionist, Occupational Therapist, Medical Technician, Surgical Technician, Registered Nurse, Chiropractor, Pharmacist, Audiologist, Speech and Language Pathologist

**Accounting
Recommended Course Sequence**

Maryland Career Cluster 2: Business Management and Finance

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts	Art or Music			
Financial Literacy		Financial Literacy (1/2 credit)		
CTE		Principles of Business Admin and Management	Principles of Accounting	Advanced Accounting
Electives		Computer Keyboarding for College and Career (1/2 credit)	2 Electives	Advanced Business Management, AP Economics, Elective, Work-Based Learning, and/or Dual Enrollment at CSM

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Accounting Clerk, Bookkeeper, Payroll Clerk, Accounts Payable/Receivable Clerk, Bank Teller, Loan Processor, Claims Adjustor	Accountant, Credit Analyst, Investment Banker, Financial Analyst, Budget Analyst, Auditor, Tax Analyst, Investment Advisor

**Accounting - Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 2: Business Management and Finance

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts			Art or Music	
Financial Literacy			Financial Literacy (1/2 credit)	
CTE		Principles of Business Admin and Management	Principles of Accounting	Advanced Accounting
Electives	World Language	World Language	Computer Keyboarding for College and Career (1/2 credit)	Advanced Business Management, AP Economics, Elective, Work-Based Learning, and/or Dual Enrollment at CSM

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Accounting Clerk, Bookkeeper, Payroll Clerk, Accounts Payable/Receivable Clerk, Bank Teller, Loan Processor, Claims Adjustor	Accountant, Credit Analyst, Investment Banker, Financial Analyst, Budget Analyst, Auditor, Tax Analyst, Investment Advisor

**Apprenticeship Maryland
Recommended Course Sequence**

Maryland Career Cluster: Various, Depending on Apprenticeship Placement

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Apprenticeship Maryland Related Technical Instruction (1)	Apprenticeship Maryland Work-based learning experience I, II, and III
Electives	Elective	Elective Computer Keyboarding for College and Career (1/2 credit)	Elective, specific to student interests/related to apprenticeship placement.	

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options are based specifically upon the Apprenticeship Placement. The apprenticeship will prepare students for a specific industry or career.

**Apprenticeship Maryland Dual Completer
Recommended Course Sequence**

Maryland Career Cluster: Various, Depending on Apprenticeship Placement

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Apprenticeship Maryland Related Technical Instruction (1)	Apprenticeship Maryland Work-based learning experience I, II, and III
Electives	World Language	World Language	Elective, specific to student interests/related to apprenticeship placement.	Additional Elective, specific to student interest/related to apprenticeship placement.
		Computer Keyboarding for College and Careers (1/2 credit)		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options are based specifically upon the Apprenticeship Placement. The apprenticeship will prepare students for a specific industry or career.

**Auto Mechanics - Service Technician
Recommended Course Sequence**

Maryland Career Cluster 10: Transportation Technologies

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Service Technician I (2 Credits)	Service Technician II (3 Credits)
Electives	Elective	Computer Keyboarding for College and Career (1/2 credit)	Travel or Elective	Travel, Elective, or Work-Based Learning
		Elective		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Parts Manager, Automotive Technician, Collision Repair Technician, Fleet Maintenance Manager	Mechanical Engineer, Design Engineer, Structural Engineer, Manufacturing Engineer, Civil Engineer

**Auto Mechanics - Service Technician Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 10: Transportation Technologies

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Service Technician I (2 Credits)	Service Technician II (3 Credits)
Electives	World Language	World Language	Travel or Elective	Travel, Elective, or Work-Based Learning
		Keyboarding for College and Career (1/2 credit)		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Parts Manager, Automotive Technician, Collision Repair Technician, Fleet Maintenance Manager	Mechanical Engineer, Design Engineer, Structural Engineer, Manufacturing Engineer, Civil Engineer

**Business Administrative Services
Recommended Course Sequence**

Maryland Career Cluster 2: Business Management and Finance

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts			Art or Music	
Financial Literacy		Financial Literacy (1/2 credit)		
CTE		Principles of Business Administration	Office Systems Management (Word / PowerPoint)	Office Systems Management (Excel/Access)
		Principles of Accounting		
Electives	Elective	Computer Keyboarding for College and Career (1/2 credit)	Elective	Elective, Work-Based Learning, and/or Dual Enrollment at CSM

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Management Trainee, Executive Assistant, Supervisor, Small Business Manager, Payroll Clerk, Accounting Clerk, Bookkeeper, Office Manager, Secretary, Data Entry Specialist, Insurance Industry	Branch Manager, Project Manager, Operations Manager, Training, Accountant, Credit Analyst, Budget Analyst, Financial Analyst, Loan Officer, Banking Industry

**Business Administrative Services – Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 2: Business Management and Finance

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts			Art or Music	
Financial Literacy			Financial Literacy (1/2 credit)	
CTE		Principles of Business Administration	Office Systems Management (Word / PowerPoint)	Office Systems Management (Excel/Access)
		Principles of Accounting		
Electives	World Language	World Language	Keyboarding for College and Career (1/2 credit)	Elective, Work-Based Learning, and/or Dual Enrollment at CSM

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate’s Degree	With a Bachelor’s Degree
Management Trainee, Executive Assistant, Supervisor, Small Business Manager, Payroll Clerk, Accounting Clerk, Bookkeeper, Office Manager, Secretary, Data Entry Specialist, Insurance Industry	Branch Manager, Project Manager, Operations Manager, Training, Accountant, Credit Analyst, Budget Analyst, Financial Analyst, Loan Officer, Banking Industry

**Business Management
Recommended Course Sequence**

Maryland Career Cluster 2: Business Management and Finance

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts			Art or Music	
Financial Literacy		Financial Literacy (1/2 credit)		
CTE		Principles of Business Admin and Management	Principles of Accounting	Advanced Business Management
Electives	Elective	Computer Keyboarding for College and Career (1/2 credit)	Elective	Advanced Accounting, AP Economics, Elective, Work-Based Learning, and/or Dual Enrollment at CSM

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Management Trainee, Executive Assistant, Supervisor, Small Business Manager, Human Resource Clerk, Sales Representative, Office Manager	Accountant, Credit Analyst, Investment Banker, Financial Analyst, Budget Analyst, Auditor, Tax Analyst, Investment Advisor

**Business Management – Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 2: Business Management and Finance

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts			Art or Music	
Financial Literacy			Financial Literacy (1/2 credit)	
CTE		Principles of Business Admin and Management	Principles of Accounting	Advanced Business Management
Electives	World Language	World Language	Elective, Keyboarding for College and Career (1/2 credit)	Advanced Accounting, AP Economics, Elective, Work-Based Learning, and/or Dual Enrollment at CSM

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate’s Degree	With a Bachelor’s Degree
Management Trainee, Executive Assistant, Supervisor, Small Business Manager, Human Resource Clerk, Sales Representative, Office Manager	Accountant, Credit Analyst, Investment Banker, Financial Analyst, Budget Analyst, Auditor, Tax Analyst, Investment Advisor

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**Career Research and Development
Recommended Course Sequence**

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Career Research and Development	Career Research and Development Seminar
				Work-Based Learning Experience (1 or 2 credits)
Electives	Elective	Computer Keyboarding for College and Career (1/2 credit)	2 Electives	Work-Based Learning
		Elective		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

**Carpentry
Recommended Course Sequence**

Maryland Career Cluster 3: Construction and Development

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Carpentry I (2 credits)	Carpentry II (3 credits)
Electives	Elective	Computer Keyboarding for College and Career (1/2 credit)	Travel or Elective	Travel, Elective, or Work-Based Learning
		Elective		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Carpenter, Construction Manager, Civil Engineering Technician, Building Code Inspector, Real Estate Manager, Facilities Manager	Land Surveyor, Civil Engineer, Environmental Engineer, Engineer (all types), Project Manager, Cost Estimator, Specifications Writer

**Carpentry Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 3: Construction and Development

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Carpentry I (2 credits)	Carpentry II (3 credits)
Electives	World Language	World Language	Travel or Elective	Travel, Elective, or Work-Based Learning
		Computer Keyboarding for College and Career (1/2 credit)		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Carpenter, Construction Manager, Civil Engineering Technician, Building Code Inspector, Real Estate Manager, Facilities Manager	Land Surveyor, Civil Engineer, Environmental Engineer, Engineer (all types), Project Manager, Cost Estimator, Specifications Writer

**CISCO Networking Academy
Recommended Course Sequence**

Maryland Career Cluster 8: Information Technology

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			PC Troubleshooting and Introduction to Network Engineering (2 Credits)	Advanced Network Engineering OR Cyber Security and Network Engineering (3 Credits)
Electives	Elective	Computer Keyboarding for College and Career (1/2 credit)	Travel or Elective	Travel, Elective, or Work-Based Learning
		Elective		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Computer Technician, Network Technician, Cabling Technician, PC Support Technician, Network Analyst, Applications Support Specialist, Applications Support Analyst	Network administrator, Project Manager, Technical Writer/Editor, Product Support Engineer, Operations System Analyst, Systems Technical Support Specialist, Quality Assurance Manager

**CISCO Networking Academy – Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 8: Information Technology

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			PC Troubleshooting and Introduction to Network Engineering (2 Credits)	Advanced Network Engineering OR Cyber Security and Network Engineering (3 Credits)
Electives	World Language	World Language	Travel or Elective	Travel, Elective, or Work-Based Learning
		Keyboarding for College and Career (1/2 credit)		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate’s Degree	With a Bachelor’s Degree
Computer Technician, Network Technician, Cabling Technician, PC Support Technician, Network Analyst, Applications Support Specialist, Applications Support Analyst	Network administrator, Project Manager, Technical Writer/Editor, Product Support Engineer, Operations System Analyst, Systems Technical Support Specialist, Quality Assurance Manager

**Computer Science
Recommended Course Sequence**

Maryland Career Cluster 8: Information Technology

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE	Foundations of Computer Science	AP Computer Science Principles	App Development	AP Computer Science Coding or Dual Enrollment Options at CSM: ITS 1020 Operating Systems Concepts or ITS 2940 Cyber Ethics
Electives		Computer Keyboarding for College and Career (1/2 credit)	2 Electives	Elective, Work-Based Learning, and/or Dual Enrollment at CSM

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Software Developer, Systems Engineer, Systems Analyst, Systems Administrator	Software Applications Developer, Network Systems Administrator, Database Administrator, Web Developer, Computer Programmer

**Computer Science – Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 8: Information Technology

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	<i>Fulfilled by pathway</i>			
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE	Foundations of Computer Science	AP Computer Science Principles	App Development	AP Computer Science Coding or Dual Enrollment Options at CSM: ITS 1020 Operating Systems Concepts or ITS 2940 Cyber Ethics
Electives	World Language	World Language	Computer Keyboarding for College and Career (1/2 credit)	Elective, Work-Based Learning, and/or Dual Enrollment at CSM
			Elective	

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Software Developer, Systems Engineer, Systems Analyst, Systems Administrator	Software Applications Developer, Network Systems Administrator, Database Administrator, Web Developer, Computer Programmer

**Cosmetology
Recommended Course Sequence**

Maryland Career Cluster 4: Consumer Services, Hospitality, and Tourism

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry		An appropriate NGSS science course
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Cosmetology I (3 credits)	Cosmetology II (3 credits)
Electives	Elective	Elective	Travel or Elective	Travel, Elective, or Work-Based Learning
		Computer Keyboarding for College and Career (1/2 credit)		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Department Manager, Branch Manager, Sales Associate, Cosmetologist, Salon Manager	General/Regional Manager, Branch Manager, Territory Manager

**Cosmetology Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 4: Consumer Services, Hospitality, and Tourism

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry		An appropriate NGSS science course
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Cosmetology I (3 credits) This includes one credit in science	Cosmetology II (3 credits)
Electives	World Language	World Language Computer Keyboarding for College and Career (1/2 credit)	Travel or Elective	Travel, Elective, or Work-Based Learning

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Department Manager, Branch Manager, Sales Associate, Cosmetologist, Salon Manager	General/Regional Manager, Branch Manager, Territory Manager

**Criminal Justice
Recommended Course Sequence**

Maryland Career Cluster 7: Human Resource Services

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science Elective
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE		American Criminal Justice Systems	Juvenile Justice	Criminal Investigation (2 credits)
			Criminal Law	
Electives	Elective	Computer Keyboarding for College and Career (1/2 credit)	Elective	Elective, Work-Based Learning, and/or Dual Enrollment at CSM

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Police Officer, Court Clerk, Crime Technician, Dispatch/Communications Officer, Security Officer (Public or Private), Corrections Officer	Parole Officer, Case Manager, Counselor, Forensic Scientist, Police Agent, Air Marshall, Customs Officer, Homeland Security Agent

**Criminal Justice Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 7: Human Resource Services

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science Elective
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE		American Criminal Justice Systems	Juvenile Justice	Criminal Investigation (2 credits)
			Criminal Law	
Electives	World Language	World Language	Computer Keyboarding for College and Career (1/2 credit)	Elective, Work-Based Learning, and/or Dual Enrollment at CSM

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Police Officer, Court Clerk, Crime Technician, Dispatch/Communications Officer, Security Officer (Public or Private), Corrections Officer	Parole Officer, Case Manager, Counselor, Forensic Scientist, Police Agent, Air Marshall, Customs Officer, Homeland Security Agent

**Culinary Arts
Recommended Course Sequence**

Maryland Career Cluster 4: Consumer Services, Hospitality, and Tourism

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Culinary Arts I (2 credits)	Culinary Arts II (3 credits)
Electives	Elective	Elective	Travel or Elective	Travel, Elective, or Work-Based Learning
		Computer Keyboarding for College and Career (1/2 credit)		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Restaurant Owner, Sales Manager, Host/Hostess, Chief, Kitchen Manager, Maitre d`	General Manager, Food Services Manager, Executive Chief, Menu Planner, Nutritionist, Registered Dietitian

**Culinary Arts Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 4: Consumer Services, Hospitality, and Tourism

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Culinary Arts I (2 credits)	Culinary Arts II (3 credits)
Electives	World Language	World Language	Travel or Elective	Travel, Elective, or Work-Based Learning
		Computer Keyboarding for College and Career (1/2 credit)		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Restaurant Owner, Sales Manager, Host/Hostess, Chief, Kitchen Manager, Maitre d`	General Manager, Food Services Manager, Executive Chef, Menu Planner, Nutritionist, Registered Dietitian

**Curriculum for Agricultural Science Education (CASE) – CHS Only
Recommended Course Sequence**

Maryland Career Cluster 5: Environmental, Agriculture, and Natural Resources

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE	Intro to Agriculture, Food, and Natural Resources	Principles of Agricultural Sciences - Animal	Animal and Plant Biotechnology	Agricultural Business, Research and Development
Electives		Computer Keyboarding for College and Career (1/2 credit)	2 Electives	Elective, Work-Based Learning, and/or Dual Enrollment at CSM

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate’s Degree	With a Bachelor’s Degree
Food Safety Inspector, Agricultural Inspector, Animal Shelter Manager, Animal Breeder, Agricultural Marketing Representative	Forest Conservationist, Food Scientist, Soil Scientist, Veterinarian, Plant Scientist, Sustainable Biomaterials Specialist, Water Resources Scientist

**Curriculum for Agricultural Science Education (CASE) – Dual Completer – CHS Only
Recommended Course Sequence**

Maryland Career Cluster 5: Environmental, Agriculture, and Natural Resources

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed		FoCS, IED or FOT		
Fine Arts			Art or Music	
Financial Literacy			Financial Literacy (1/2 credit)	
CTE	Intro to Agriculture, Food, and Natural Resources	Principles of Agricultural Sciences - Animal	Animal and Plant Biotechnology	Agricultural Business, Research and Development
Electives	World Language	World Language	Computer Keyboarding for College and Career (1/2 credit)	Elective, Work-Based Learning, and/or Dual Enrollment at CSM

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate’s Degree	With a Bachelor’s Degree
Food Safety Inspector, Agricultural Inspector, Animal Shelter Manager, Animal Breeder, Agricultural Marketing Representative	Forest Conservationist, Food Scientist, Soil Scientist, Veterinarian, Plant Scientist, Sustainable Biomaterials Specialist, Water Resources Scientist

**Electricity
Recommended Course Sequence**

Maryland Career Cluster 3: Construction and Development

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Electricity I (2 credits)	Electricity II (3 credits)
Electives	Elective	Elective Computer Keyboarding for College and Career (1/2 credit)	Travel or Elective	Travel, Elective, or Work-Based Learning

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Construction Manager, Civil Engineering Technician, Building Code Inspector, Electrician, Facility Manager	Engineer (all types), Architect, Specifications Writer, Project Manager

**Electricity Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 3: Construction and Development

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Electricity I (2 credits)	Electricity II (3 credits)
Electives	World Language	World Language	Travel or Elective	Travel, Elective, or Work-Based Learning
		Computer Keyboarding for College and Career (1/2 credit)		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Construction Manager, Civil Engineering Technician, Building Code Inspector, Electrician, Facility Manager	Engineer (all types), Architect, Specifications Writer, Project Manager

**Fire Fighter / Emergency Medical Technician
Recommended Course Sequence**

Maryland Career Cluster 7: Human Resource Services

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry		An appropriate NGSS science course
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED, or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Fire and Rescue I (3 credits)	Fire and Rescue II (3 credits)
Electives	Elective	Elective of choice recommended: Principles of Biomedical Sciences Computer Keyboarding for College and Career (1/2 credit)	Travel or Elective	Travel or Elective

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Firefighter, EMT, Paramedic	Fire Marshall, Fire Investigator, Smoke Jumper, Captain, Fire Chief, Assistant Chief, Lieutenant

**Fire Fighter / Emergency Medical Technician Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 7: Human Resource Services

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry		An appropriate NGSS science course
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED, or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Fire and Rescue I (3 credits)	Fire and Rescue II (3 credits)
Electives	World Language	World Language	Travel or Elective	Travel or Elective
		Computer Keyboarding for College and Career (1/2 credit)		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Firefighter, EMT, Paramedic	Fire Marshall, Fire Investigator, Smoke Jumper, Captain, Fire Chief, Assistant Chief, Lieutenant

**Graphic Arts
Recommended Course Sequence**

Maryland Career Cluster 1: Arts, Media, and Communication

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Graphic Arts I (2 credits)	Graphic Arts II (3 credits)
Electives	Elective	Elective Computer Keyboarding for College and Career (1/2 credit)	Travel or Elective	Travel, Elective, or Work-Based Learning

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Cartoonist, Fashion Artist, Photographer, Sketch Artist, Craftsperson, Illustrator, Exhibition Installer, Interior Design, Graphic Design, Desktop Publishing, Digital Image Specialist, Advertising Layout Designer	Textile Designer, Conservator, Animator, Museum Director, Gallery Manager, Fine Artist (i.e., painting, sculpture, ceramics), Advertising Manager, Publicist, Communications Manager

**Graphic Arts Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 1: Arts, Media, and Communication

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Graphic Arts I (2 credits)	Graphic Arts II (3 credits)
Electives	World Language	World Language	Travel or Elective	Travel, Elective, or Work-Based Learning
		Computer Keyboarding for College and Career (1/2 credit)		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Cartoonist, Fashion Artist, Photographer, Sketch Artist, Craftsperson, Illustrator, Exhibition Installer, Interior Design, Graphic Design, Desktop Publishing, Digital Image Specialist, Advertising Layout Designer	Textile Designer, Conservator, Animator, Museum Director, Gallery Manager, Fine Artist (i.e., painting, sculpture, ceramics), Advertising Manager, Publicist, Communications Manager

Home Improvement Recommended Course Sequence

Maryland Career Cluster 3: Construction and Development

Content Area	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Home Improvement I (2 credits)	Home Improvement II (3 credits)
Electives	Elective	Elective	Travel or Elective	Travel, Elective, or Work-Based Learning
		Computer Keyboarding for College and Career (1/2 credit)		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Construction Manager, Civil Engineering Technician, Building Code Inspector, Facility Manager	Engineer (all types), Architect, Specifications Writer, Project Manager

**Home Improvement Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 3: Construction and Development

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Home Improvement I (2 credits)	Home Improvement II (3 credits)
Electives	World Language	World Language	Travel or Elective	Travel, Elective, or Work-Based Learning
		Computer Keyboarding for College and Career (1/2 credit)		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Construction Manager, Civil Engineering Technician, Building Code Inspector, Facility Manager	Engineer (all types), Architect, Specifications Writer, Project Manager

**Interactive Media Production
Recommended Course Sequence**

Maryland Career Cluster 1: Arts, Media, and Communication

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Interactive Media I (2 credits)	Interactive Media II (3 credits)
Electives	Elective	Elective	Travel or Elective	Travel, Elective, or Work-Based Learning
		Computer Keyboarding for College and Career (1/2 credit)		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Audio Visual Technician, Character Animator, Photographer, Production Manager, Social Media Coordinator, Sound Mixer	Film Producer, Graphic Designer, Journalist, Multimedia Artist, Screenwriter, Videographer, Web Master

**Interactive Media Production Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 1: Arts, Media, and Communication

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Interactive Media Production I (2 credits)	Interactive Media Production II (3 credits)
Electives	World Language	World Language	Travel or Elective	Travel, Elective, or Work-Based Learning
		Computer Keyboarding for College and Career (1/2 credit)		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Audio Visual Technician, Character Animator, Photographer, Production Manager, Social Media Coordinator, Sound Mixer	Film Producer, Graphic Designer, Journalist, Multimedia Artist, Screenwriter, Videographer, Web Master

**Naval Science/NJROTC
Recommended Course Sequence**

Maryland Career Cluster 1: Arts, Media, and Communication

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE	Naval Science I	Naval Science II	Naval Science III	
Electives		1/2 credit Elective	Electives	Naval Science IV Electives

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

The skills developed in the NJROTC program will support many college and career opportunities. Not all students will seek to join a branch of service upon graduation.

High school graduates and students with Associate's degrees can choose from about 120 to 190 enlisted job specialties depending on the branch of service. There are programs available to complete a Bachelor's degree and seek a commission once they are in the military. The enlisted career fields are a wide range of jobs.

If a candidate already has a Bachelor's degree he/she may seek that route and be commissioned through Officer Candidate School. For high school students, they may also seek the commissioned route through one of the service academies or ROTC at a participating university. There is a wide variety of officer jobs in the military.

**Naval Science/NJROTC Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 1: Arts, Media, and Communication

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed			FoCS, IED or FOT	
Fine Arts		Art or Music		
Financial Literacy				Financial Literacy (1/2 credit)
CTE	Naval Science I	Naval Science II	Naval Science III	
Electives	World Language	World Language	World Language	Naval Science IV Electives

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

The skills developed in the NJROTC program will support many college and career opportunities. Not all students will seek to join a branch of service upon graduation.

High school graduates and students with Associate's degrees can choose from about 120 to 190 enlisted job specialties depending on the branch of service. There are programs available to complete a Bachelor's degree and seek a commission once they are in the military. The enlisted career fields are a wide range of jobs.

If a candidate already has a Bachelor's degree he/she may seek that route and be commissioned through Officer Candidate School. For high school students, they may also seek the commissioned route through one of the service academies or ROTC at a participating university. There is a wide variety of officer jobs in the military.

**Plumbing, Heating, Ventilation, and Air Conditioning
Recommended Course Sequence**

Maryland Career Cluster 3: Construction and Development

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			HVAC I (2 credits)	HVAC II (3 credits)
Electives	Elective	Elective	Travel or Elective	Travel, Elective, or Work-Based Learning
		Computer Keyboarding for College and Career (1/2 credit)		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Construction Manager, Civil Engineering Technician, Building Code Inspector, Facility Manager	Engineer (all types), Architect, Specifications Writer, Project Manager

**Plumbing, Heating, Ventilation, and Air Conditioning Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 3: Construction and Development

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED, or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			HVAC I (2 credits)	HVAC II (3 credits)
Electives	World Language	World Language	Travel or Elective	Travel, Elective, or Work-Based Learning
		Computer Keyboarding for College and Career (1/2 credit)		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Construction Manager, Civil Engineering Technician, Building Code Inspector, Facility Manager	Engineer (all types), Architect, Specifications Writer, Project Manager

**Project Lead the Way Biomedical Sciences – Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 6: Health and Biosciences

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Geometry	Algebra II	Precalculus	AP Calculus I
Science	Biology	Chemistry	Physics	AP Science with lab recommended (2 credits)
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed			FoCS, IED or FOT	
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE	Principles of Biomedical Science	Human Body Systems	Medical Interventions	Biomedical Innovations
Electives	World Language	World Language	Computer Keyboarding for College and Career (1/2 credit)	Elective, Work-Based Learning, and/or Dual Enrollment at CSM

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Psychiatric Assistant, Medical Assistant, Pharmacy Technician, Phlebotomist, EMT, Veterinary Technician, Dental Assistant	Biomedical Engineer, Biologist, General Practitioner, Forensic Scientist, Geneticist, Surgeon

**Project Lead the Way Pathway to Engineering – Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 9: Manufacturing, Engineering, and Technology

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Geometry	Algebra II	Precalculus	AP Calculus I
Science	Biology	Chemistry	Physics	AP Science with lab recommended (2 credits)
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	IED			
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE		Principles of Engineering	Digital Electronics	Engineering Design and Development
			Engineering Elective*	
Electives	World Language	World Language	Computer Keyboarding for College and Career (1/2 credit)	Elective, Work-Based Learning, and/or Dual Enrollment at CSM

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

*Students are required to take either one (or both) of the engineering electives which are **Aerospace Engineering** and **Civil Engineering and Architecture**.

Sample Career Options

With an Associate’s Degree	With a Bachelor’s Degree
Mechanical Engineering Technician, Civil Engineering Technician, Industrial Engineering Technician, Electrical Engineering Technician	Mechanical Engineer, Aerospace Engineer, Electrical Engineer, Chemical Engineer, Nuclear Engineer, Civil Engineer, Industrial Engineer

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**Teacher Academy of Maryland – Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 7: Human Resource Services

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Geometry	Algebra II	Precalculus	AP Calculus I or AP Statistics
Science	Biology	Chemistry	Physics	AP Science recommended
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE		Human Growth and Development through Adolescence	Teaching as a Profession	Foundations of Curriculum Instruction
				Education Academy Internship
Electives	World Language	World Language	Elective	Elective, Work- Based Learning, and/or Dual Enrollment at CSM
			Computer Keyboarding for College and Career (1/2 credit)	

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate’s Degree	With a Bachelor’s Degree
Instructional Assistant, Day Care Instructor, Substitute Teacher	Teacher, Professional School Counselor

**Welding
Recommended Course Sequence**

Maryland Career Cluster 3: Construction and Development

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Welding I (2 credits)	Welding II (3 credits)
Electives	Elective	Elective Computer Keyboarding for College and Career (1/2 credit)	Travel or Elective	Travel, Elective, or Work-Based Learning

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Construction Manager, Civil Engineering Technician, Building Code Inspector, Facility Manager	Engineer (all types), Architect, Specifications Writer, Project Manager

**Welding Dual Completer
Recommended Course Sequence**

Maryland Career Cluster 3: Construction and Development

Content Area	9th Grade	10th Grade	11th Grade	12th Grade
English	English	English	English	English
Math	Algebra I or Geometry	Geometry or Algebra II	Algebra II or Precalculus	Next appropriately rigorous math course
Science	Biology	Matter and Energy or Chemistry	Earth Science or Physics	Science or Social Studies Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health			
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy		Financial Literacy (1/2 credit)		
CTE			Welding I (2 credits)	Welding II (3 credits)
Electives	World Language	World Language	Travel or Elective	Travel, Elective, or Work-Based Learning
		Computer Keyboarding for College and Career (1/2 credit)		

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options.

Sample Career Options

With an Associate's Degree	With a Bachelor's Degree
Construction Manager, Civil Engineering Technician, Building Code Inspector, Facility Manager	Engineer (all types), Architect, Specifications Writer, Project Manager