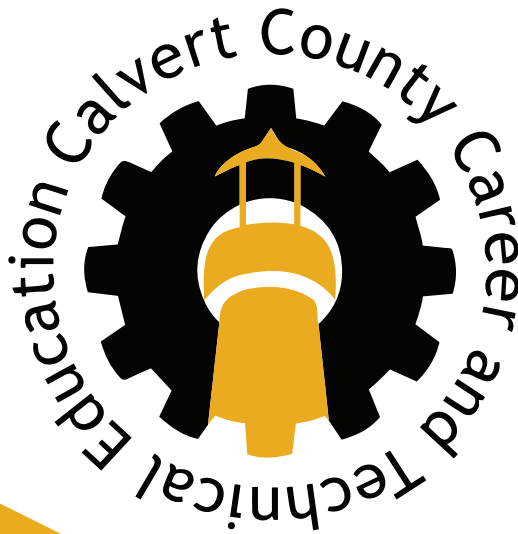


2025-2026

Career and Technical Education Planning Guide



Calvert County High Schools

Calvert High School

520 Fox Run Blvd.
Prince Frederick, MD 20678
Ms. Andrea Young, *Principal*
Main Office: 443-550-8880 Guidance Office: 443-550-8893

Huntingtown High School

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

Northern High School

2950 Chaneyville Road
Owings, MD 20736
Dr. Kevin Simmons, *Principal*
Main Office: 443-550-8950 Guidance Office: 443-550-8941

Patuxent High School

12485 Southern Connector Blvd.
Lusby, MD 20657
Mr. Anthony Barone, *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
Dr. Joe Sampson, *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. Kelly Cleland, *Principal*
Main Office: 443-550-9170 Guidance Office: 443-550-9175

Southern Middle School

9615 H. G. Trueman Road
Lusby, MD 20657
Mr. Ryan Crowley, *Principal*
Main Office: 443-550-9250 Guidance Office: 443-550-9259

Windy Hill Middle School

9560 Boyds Turn Road
Owings, MD 20736
Mr. Mark Whidden, *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. Racheal Lindauer, *Principal*
Main Office: 443-550-9910

Calvert County Public Schools Career & Technology Education Planning Guide

Board of Education of Calvert County

Jana L. Smith-Post
President

Lisa M. Grenis
Vice President

Melissa M. Goshorn
Member

Paul E. Harrison
Member

Joseph L. Marchio
Member

Grace E. Minakowski
Student Representative

Dr. Andraé Townsel
Superintendent of Schools

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Calvert County Public Schools
Divisions of Instruction & Student Services • 443-550-8000
1305 Dares Beach Road, Prince Frederick, MD 20678

Cover designed by Avery Kettler
12th grade, Patuxent High School
Advanced Graphic Communications
Career & Technology Academy

Nondiscrimination Statement

Calvert County Public Schools does not discriminate on the basis of race, color, religion, sex, age, ancestry or national origin, familial status, marital status, physical or mental disability, sexual orientation, gender identity and expression, genetic information, or any other characteristic protected by law in its programs and activities and provides equal access to the Boy Scouts and other designated youth programs.

Calvert County Public Schools does not refuse enrollment of a prospective student, expel a current student, or withhold privileges from a current student, or prospective student, or the parent or guardian of a current or prospective student because of an individual’s race, ethnicity, color, religion, sex, age, national original, marital status, sexual orientation, gender identity or disability.

Calvert County Public Schools does not discipline, invoke a penalty against, or take any other retaliatory action against a student or parent or guardian of a student who files a complaint alleging that the program or school discriminated against the student, regardless of the outcome of the complaint.

The following persons have been designated to handle inquiries regarding the non-discrimination policies:

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

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.

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 they have 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. Cecelia Lewis, 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.

Calvert County Public Schools Antiracism Statement

Calvert County Public Schools (CCPS) explicitly denounces racism, bullying, discrimination, white supremacy, hate, and racial inequity in any form within our school community. Furthermore, CCPS will not tolerate the values, structures, and behaviors that perpetuate systemic racism.

Each member of the district, individually and collectively, is responsible for creating and nurturing a safe, antiracist learning environment where each student, staff member, and community partner is a respected and valued member of the CCPS community.

Career & Technical Education

In order to receive a Maryland High School Diploma, students must complete a program of study, or pathway. There are two possible graduation pathways: College Preparatory or Career and Technical Education. Students can also complete both pathways and be a dual completer.

Career and Technical 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 (CCPS) offers a wide variety of CTE programs of study. In all, CCPS offers 24 CTE programs. All 24 programs offer the benefits described above to students. Of the 24 programs, 13 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 programs at CTA 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 may be permitted to enroll in level one if space is available.

At CTA, job placement services provide employment readiness training for career and technical 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
- Automotive Service Technician
- Carpentry & Home Improvement
- CISCO Networking & Cybersecurity
- Cosmetology
- Culinary Arts
- Curriculum for Agriculture Science Education (CASE)
- Electricity
- Firefighter/Emergency Medical Technician
- Graphic Arts
- Interactive Media Production
- Plumbing, Heating, Ventilation, and Air Conditioning
- Welding

In addition to the CTE programs available at CTA, 11 Career and Technical 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
- Business Administrative Services
- Business Management
- Career Research and Development
- Computer Science
- Criminal Justice/Law Enforcement
- 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 and Technical Education Programs of Study

The majority of the pathways have 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 articulation agreements in place that give CCPS graduates a head start or advanced standing when joining that institution. Credits earned via Dual Enrollment are then locked-in to a student’s college transcript and often can be easily transferred to other degree-granting colleges or institutions. Articulations provide students with advanced standing, typically by allowing students to waive prerequisite or early courses to complete a degree or certificate. A key difference is that students must apply to participate in the dual enrollment portion of a course while still in high school, while articulated credits are typically granted as a result of completing and filling out paperwork following graduation and applying at the institution granting the credit.

Below is a list of articulation agreements by program:

Pathways	Location of Program	Articulation (*A) or Dual Enrollment (*DE)
Academy of Health Professions	CTA	CSM (*A)
Academy of Health Professions Physical Rehabilitation Concentration	CTA	CSM (*DE)
Business Management	Home High School	CSM (*A)
Accounting	Home High School	CSM (*A)

Pathways	Location of Program	Articulation (*A) or Dual Enrollment (*DE)
Automotive Service Technician	CTA	Advanced Technical Institute (*A) Community College of Baltimore County (*A) Nashville Auto Diesel College (*A) Ohio Technical College (*A) Pennsylvania College of Technology (*A) Universal Technical Institute (*A) University of Northwestern Ohio (*A)
Carpentry & Home Improvement	CTA	Mid-Atlantic Carpenters Training Center (*A)
CASE Agriculture	CTA	Blue Ridge Technical and Community College (*A) Community College of Baltimore (*A) Delaware Valley University (*A) Rutgers University (*A) St. Mary's College of Maryland (*A) University of Maryland – Institute of Applied Agriculture (*A)
CISCO Networking & Cybersecurity	CTA	CSM (*A)
Criminal Justice/Law Enforcement	Home High School	CSM (*DE)
Culinary Arts	CTA	Anne Arundel Community College (*A) Johnson & Wales University (*A) Prince George's Community College (*A)
Electricity	CTA	IBEW Local 26 Apprenticeship (*A)
Fire Fighter/EMT	CTA	University of Maryland (*A)
Graphic Arts	CTA	CSM (*A)
Interactive Media Production	CTA	CSM (*DE)
P-HVAC	CTA	Union Apprenticeship Programs (*A)
Project Lead the Way-Pathway to Engineering	Home High School	CSM (*A) UMBC (*A)
Project Lead the Way-Biomedical Sciences	Home High School	CSM (*DE) Stevenson University (*A)
Teacher Academy of Maryland	Home High School	Bowie State University (*A) Coppin State (*A) CSM (*A) Frostburg State University (*A) Hood College (*A) McDaniel College (*A) Morgan State University (*A) Salisbury University (*A) Stevenson University (*A) St. Mary's College of Maryland (*A) Towson University (*A)
Welding	CTA	Union Apprenticeship Programs (*A)

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	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	3506	AP Computer Science Principles	1
	3511	App Development	1
	3519	AP Computer Science Coding	1
Criminal Justice / Law Enforcement	2600	American Criminal Justice System	1
	2610	Juvenile Justice	1
	2620	Criminal Law	1
	2630	Criminal Investigation	2
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 OR	1
	8008	Aerospace Engineering OR	
	8011	Civil Engineering and Architecture	
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
	8071A+ 8071B OR 8071A + 8071C	Academy of Health Professions II Track A (CCMA – 8071B) OR Academy of Health Professions II Track B (Physical Rehabilitation – 8071C)	3
	8941	Service Technician I (Brakes, Steering, and Suspension)	2
Automotive Service Technician	8951	Service Technician II	3
	8871	Carpentry & Home Improvement I	2
Carpentry & Home Improvement	8881	Carpentry & Home Improvement II	3
	8441	Introduction to Network Engineering	2
CISCO Networking & Cybersecurity	8452	CCNA and CyberOps	3
	8360	Cosmetology I	3
Cosmetology	8371	Cosmetology II	3
	8511	Culinary Arts I	2
Culinary Arts	8521	Culinary Arts II	3
	8035	Intro. to Agriculture, Food, and Natural Resources (AFNR)	1
Curriculum for Agricultural Science Education (CASE)	8036	Principles of Agricultural Science – Animal (ASA)	1
	8037	Animal and Plant Biotechnology (APB)	1
	8038 or 8039	Agricultural Business, Research, and Development (ARD)	½
	8411	Electricity I	2
Electricity	8421	Electricity II	3
	8994	Emergency Medical Technician (EMT)	3
Firefighter/Emergency Medical Tech	8998	Firefighting	3
	8611	Graphic Arts I	2
Graphic Arts	8621	Graphic Arts II	3
	8631	Interactive Media Production I	2
Interactive Media Production	8641	Interactive Media Production II	3
	8124	Heating, Ventilation, and Air Conditioning I	2
Plumbing, Heating, Ventilation, and Air Conditioning	8125	Heating, Ventilation, and Air Conditioning II	3
	8911	Welding I	2
Welding	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	Next appropriate Science course	Next appropriate science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE		*Principles of Biomedical Science (Req. If less than 70% in Biology in 9 th grade)	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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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	Next appropriate Science Course	Next appropriate Science course	Science Elective
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE		*Principles of Biomedical Science (Req. If less than 70% in Biology in 9 th grade)	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	

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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	Next appropriate Science course	Next appropriate Science course	Science Elective OR
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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)	1 Elective	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	Next appropriate Science course	Next appropriate Science course	Science Elective OR
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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)	2 Electives, specific to student interests/related to apprenticeship placement.	Additional electives as schedule allows.

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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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 Computer Keyboarding for College and Careers (1/2 credit)	2 Electives, specific to student interests/related to apprenticeship placement.	Additional Electives as schedule allows, specific to student interest/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.

**Automotive 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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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) Elective	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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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

**Automotive 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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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 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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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	Next appropriate Science course	Next appropriate Science course	Science Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
Tech Ed	FoCS, IED or FOT			
Fine Arts			Art or Music	
Financial Literacy			Financial Literacy (1/2 credit)	
CTE		Principles of Business Administration Principles of Accounting	Office Systems Management (Word / PowerPoint)	Office Systems Management (Excel/Access)
Electives	Elective	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
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	Next appropriate Science course	Next appropriate Science course	Science Elective OR
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
Tech Ed	FoCS, IED or FOT			
Fine Arts			Art or Music	
Financial Literacy			Financial Literacy (1/2 credit)	
CTE		Principles of Business Administration Principles of Accounting	Office Systems Management (Word / PowerPoint)	Office Systems Management (Excel/Access)
Electives	World Language	World Language		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	Next appropriate Science course	Next appropriate Science course	Science Elective OR
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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)		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	Next appropriate Science course	Next appropriate Science course	Science Elective OR
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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		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	Next appropriate Science course	Next appropriate Science course	Science Elective OR
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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) Elective	1 Elective	Work-Based Learning additional credit if required for graduation.

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

Carpentry & 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	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE			Carpentry & Home Improvement I (2 credits)	Carpentry & Home Improvement II (3 credits)
Electives	Elective	Computer Keyboarding for College and Career (1/2 credit) Elective	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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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 & 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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE			Carpentry & Home Improvement I (2 credits)	Carpentry & Home Improvement 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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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 & Cybersecurity Recommended Course Sequence

Maryland Career Cluster 8: Information Technology

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	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE			Introduction to Network Engineering (2 Credits)	CCNA and CyberOps Associate (3 Credits)
Electives	Elective	Computer Keyboarding for College and Career (1/2 credit) Elective	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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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 & Cybersecurity 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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE			Introduction to Network Engineering (2 Credits)	CCNA and CyberOps Associate (3 Credits)
Electives	World Language	World Language 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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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	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	Next appropriate Science course	Next appropriate science course	Science Elective OR
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
Tech Ed	Foundations of Computer Science			
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE		AP Computer Science Principles	App Development	AP Computer Science Coding
Electives		Computer Keyboarding for College and Career (1/2 credit)	1 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
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	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	Next appropriate Science course	Next appropriate Science course	Science Elective OR
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
Tech Ed	Foundations of Computer Science			
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE		AP Computer Science Principles	App Development	AP Computer Science Coding
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
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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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 Computer Keyboarding for College and Career (1/2 credit)	If Travel required, students will need to take Health II and Financial Literacy online.	Travel, Elective, or Work-Based Learning

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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	World Language	World Language Computer Keyboarding for College and Career (1/2 credit)	If Travel required, students will need to take Health II and Financial Literacy online.	Travel, Elective, or Work-Based Learning

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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	Next appropriate Science course	Next appropriate science course	Science Elective
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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 Law	Criminal Investigation (2 credits)
Electives	Elective	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

**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	Next appropriate Science course	Next appropriate Science course	Science Elective
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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 Law	Criminal Investigation (2 credits)
Electives	World Language	World Language		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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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 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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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

**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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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 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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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)
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	Next appropriate science course	Next appropriate science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE			CASE I: Intro to Agriculture, Food, and Natural Resources and Principles of Agricultural Sciences – Animal (2 credits)	CASE II: Animal and Plant Biotechnology and Agricultural Business, Research and Development (3 credits)
Electives		Computer Keyboarding for College and Career (1/2 credit)	Additional elective if space allows	Additional Science if Space allows

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
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	Next appropriate Science course (AP Environmental Sci suggested)	Next appropriate Science course	Science Elective
Social Studies	US History	American Government	World History	
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
Tech Ed	FoCS, IED or FOT			
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE			CASE I: Intro to Agriculture, Food, and Natural Resources and Principles of Agricultural Sciences – Animal (2 credits)	CASE II: Animal and Plant Biotechnology and Agricultural Business, Research and Development (3 credits)
Electives	World Language	World Language		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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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 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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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

**Firefighter / 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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
Tech Ed	FoCS, IED, or FOT			
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE			EMT (3 credits)	Firefighting (3 credits)
Electives	Elective	Elective of choice recommended: Principles of Biomedical Sciences Computer Keyboarding for College and Career (1/2 credit)	(Students requiring travel should take Financial Literacy and Health II online)	Travel or Elective

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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

**Firefighter / 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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
Tech Ed	FoCS, IED, or FOT			
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE			EMT (3 credits)	Firefighting (3 credits)
Electives	World Language	World Language Computer Keyboarding for College and Career (1/2 credit)	Travel or Elective (Students requiring travel should take Financial Literacy and Health II online)	Travel or Elective

Presented is one of the recommended course sequences. Please see your school counselor to discuss all options. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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	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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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 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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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

**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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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 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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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 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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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	Next appropriate Science course	Next appropriate Science course	Science Elective OR
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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		Elective	Elective	Naval Science IV and/or other 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 Elective OR
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health I			Health II (1/2 credit)
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 or Elective

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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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 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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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 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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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 I		Health II (1/2 credit)	
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		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 I		Health II (1/2 credit)	
Tech Ed	Introduction to Engineering Design			
Fine Arts		Art or Music		
Financial Literacy			Financial Literacy (1/2 credit)	
CTE		Principles of Engineering	Digital Electronics, Civil Engineering, OR Aerospace Engineering Engineering Elective*	Engineering Design and Development
Electives	World Language	World Language		Additional Engineering elective/course.

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	Next appropriate Science course	Next appropriate Science course	AP Science recommended
Social Studies	US History	American Government	World History	Social Studies Elective
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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, Apprenticeship, 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
Instructional Assistant, Day Care Instructor, Substitute Teacher	Teacher, Professional School Counselor

Welding 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	Next appropriate Science course	Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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	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	Next appropriate Science course	Earth Science or Physics Next appropriate Science course	
Social Studies	US History	American Government		World History
PE / Health	PE (that meets graduation requirement) and Health I		Health II (1/2 credit)	
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 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. For students who entered high school in the 2021-22 school year or later, Health II will be required in the 11th or 12th grade year. Some students will need to take this course outside of the school day or online in order to meet all graduation requirements in conjunction with completing a program at CTA.

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