

Carroll County Public Schools

Career Pathways



2026-2027

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Arts, Media, and Communication

Unlock Your Creativity

- **Work Involved:** Expressing creative talent, designing, performing arts, photography, graphic arts, and media production.
- **Pathways:**
 - Applied Arts-Visual
 - Creative and Performing Arts
 - Applied Arts-Written and Spoken
 - Creating, producing, and distributing media content
- **Considerations:**
 - Love for art, music, theater, and creative expression.
 - Enjoy imaginative and unstructured environments.
 - Value aesthetics and artistic qualities.
- **Ideal for:**
 - Those who enjoy original thinking and creative communication.
- **Related Careers:**
 - Graphic Designer
 - Journalist
 - Public Relations Specialist
 - Photographer
 - Animator
 - Video Producer
 - Sound Engineer

CAREER MAJOR: Dance

CREDITS: 3

Related Careers: Actor/Actress, Dancer, Choreographer, Dance Teacher, Producer/Director				
Grade →	9	10	11	12
Career Major (3 minimum credits with 2 credits in Dance)	Dance I (.5)	Dance II (.5/1) Personal Fitness (.5) Music History & Literature (.5) Honors Child & Adolescent Development (1) Weight Training (.5) Theatre I (.5)	Dance III (.5/1) Barbell & Cross training (.5) Psychology (1 – Acad, Hon or AP) Principles of Business Administration and Management (1)	Applied Dance (.5/1) Honors Humanities (.5) Issues in American Society (.5) Public Speaking (.5) Honors Theater Production (1) Movement for Athletes (.5)

CAREER MAJOR: Graphic Communications

CREDITS: 3

Related Careers: Graphic Designer, Web Designer, Photographer, Animation Specialist, Brand Strategist, Video Editor, Industrial Designer, Social Media Specialist, Digital Marketer				
Grade →	9	10	11	12
Career Major (3 minimum credits) *required	Art 1 (.5-1)	Honors Principles of Art, Media, and Communication (1)* Principles of Business Administration and Management (1)	Honors Art II (.5-1) Journalistic Writing (.5) Honors Marketing (1), Business Communication & Keyboarding (1) Applied Art (.5-1)	Honors Digital Design in Photography (1) Honors Digital Media and Design (1) Yearbook Production (1) Psychology (1 – Acad, Hon, or AP) Newspaper Production (.5-1) Honors Studio Art (.5-1)
Related Completers:	Print Production, Video Production, Drafting, Interactive Media Production			

COMPLETER: [Interactive Media Production](#)

CREDITS: 4

Related Careers: Multimedia Artists and Animator, Video Game Designer, Audio – Visual Equipment Technician, Technology Project Managers, Film and Video Editors, Advertising and Promotions Manager, Search Marketing Strategist, Producer, Art Director				
Grade →	9	10	11	12
Completer Program Requirements (4 minimum credits)		Honors Principles of Art, Media, and Communication (1)	Honors Interactive Multimedia Production (1)	Advance Interactive Multimedia Production (2) or Advanced Simulation and Gaming (2)
Career Specific Enrichment Courses	AP Computer Science Principles (1), Honors Digital Design in Photography(1), Honors Digital Media and Design (0.5-1), Journalistic Writing (0.5), Honors Marketing (1), Principles of Business Administration and Management (1), Public Speaking (0.5), AP Studio 2D Design Art (1), Theatre I, II, III (0.5-1.5), Honors Career Related Internship (1-3)			
Certification and College Credit Opportunities	Pending			

CAREER MAJOR: Mass Communications

CREDITS: 3

Related Careers: Editor, Writer/Author, Journalist, Announcer, Digital Editor, Event Planner, Media Relations Specialist, Reporter, Meteorologist, Broadcaster, Social Media Manager, Travel Agent, Advertising & Promotions Manager				
Grade →	9	10	11	12
Career Major (3 minimum credits)	Business Communications & Keyboarding (1)	Theatre I (.5) Honors Film & Literature (.5) Honors Principles of Art, Media, and Communication (1) Speech & Debate (.5)	Journalistic Writing (.5) Theatre II (.5) Public Speaking (.5) Creative Writing (.5) Honors World Language III (1) Newspaper Production (.5) Honors Marketing (1) Principles of Business Administration and Management (1)	Psychology (1 – Acad, Hon, or AP) Business Law (1) Honors or AP World Language IV (1) Political Science (.5) Honors Digital Design in Photography (1) AP Research (1) Sociology (.5)
Related Completers:	Print Production, Video Production, Marketing			

CAREER MAJOR: Music

CREDITS: 3

Related Careers: Industrial Designer, Interior Designer, Graphic Designer, Brand Strategist, Video Editor, Graphic Designer				
Grade →	9	10	11	12
Career Major (3 minimum credits)	Concert Band (1) Orchestra (1) Chorus (1) Exploring Music (1)	Wind Ensemble (1) Hon Orchestra (1) Hon Chorus (1) Music History & Literature (.5-1) Honors Principles of Art, Media, and Communication (1)	Honors Marketing (1) or Graphics Communications (1) Hon Festival Chorus (1) Hon Jazz Ensemble (1) Electronic Music (.5-1) Band Front (.5)	Honors Music History & Literature (1) Music Theory (.5-1 – Hon or AP) Hon. Vocal Ensemble (.5-1) Principles of Business Administration & Management (1)

COMPLETER: [Print Production](#)

CREDITS: 4

Related Careers: Print Production Specialist, Print Production Manager, Graphic Designer, Photojournalist, Print Binding & Finishing Worker, Art Director, Software Designer, Package Designer, Digital Animator, Web Designer, 3D Graphics Engineer, Advertising & Promotions Manager.				
Grade →	9	10	11	12
Completer Program Requirements (4 minimum credits)			Honors Principles of Art, Media, and Communication (1) or Honors Digital Media and Design (1)	Print Production (3)
Career Specific Enrichment Courses	Honors Art (0.5-1), Journalistic Writing (0.5), Newspaper production (0.5-1), Principles of Business Administration and Management (1), Public Speaking (0.5), AP Studio Art (1), AP Studio Art: 2D Art (1), Theatre I, II, III (0.5-1.5), Honors Career Related internship (1-3)			
Certification and College Credit Opportunities	Certification: Graphic Communications and Digital File Preparation/Digital File Output (Print Ed) 3 Articulated Credits: Carroll Community College – Computer Graphics 4 Articulated Credits: Montgomery College – Desktop Publishing			

CAREER MAJOR: Theatre

CREDITS: 3

Related Careers: Performing Artist, Director, Drama Therapist, Theater Stage Manager, Broadcast Presenter, Community Arts Coordinator, Casting Manager				
Grade →	9	10	11	12
Career Major (3 minimum credits, 2 minimum credits in Theatre)	Theatre I (.5) Honors Principles of Art, Media and Communication (1)	Technical Theatre I (.5) Theatre II (.5) Creative Writing (.5) Public Speaking (.5) Principles of Fashion & Interior Design (.5) Honors Film & Literature (.5)	Speech & Debate (5) Theatre III (.5) Psychology (1 – Acad, Hon, or AP) Honors Marketing (1) Honors Theatre Production & Analysis (1) Music Theory (.5 -1 Hon or AP)	Ancient & Medieval History (.5) Honors Humanities (.5) Shakespeare (.5) Dance I (.5) Dance II (.5) Principles of Business Administration and Management (1)

COMPLETER: [Video Production](#)

CREDITS: 4

Related Careers: Film & Video Editor, Audio & Video Equipment Technician, Camera Operator for Television, Video & Motion Picture, Broadcast & Sound Engineer, Producer, Director, Art Director				
Grade →	9	10	11	12
Completer Program Requirements (4 minimum credits)			Honors Principles of Art, Media, and Communication (1) or Honors Digital Media and Design (1)	Video Production (3)
Career Specific Enrichment Courses	Creative Writing (0.5), Drama I, II, III (0.5-1.5), Honors Art (0.5-1), Journalistic Writing (0.5), AP Lit and Lang (1), Principles of Business Administration and Management (1), Psychology I or Honors Psychology (1), Public Speaking (0.5), AP Studio Art (1), Honors Career Related Internship (1-3)			
Certification and College Credit Opportunities	3 Articulated Credits: Stevenson University – Film & Moving Image			

CAREER MAJOR: Visual Fine Arts

CREDITS: 3

Related Careers: Painter, Three-dimensional Artist, Photographer, Digital Artist, Art Critic/Reviewer, Art Curator, Art Educator, Graphic Designer, Visual Artist				
Grade →	9	10	11	12
Career Major (3 minimum credits)	Art 1 (1)	Honors Art II (.5-1) Honors Principles of Art, Media, and Communication (1) Principles of Fashion & Interior Design (.5-1)	Principles of Business Administration and Management (1) Honors Digital Media and Design (1) Psychology (1 – Acad, Hon or AP) Honors Digital Design in Photography (1) Honors Advanced Design Applications (1)	Applied Art (.5-1) Studio Art (.5-1 – Hon or AP) Honors Humanities (.5) Honors Mixed Media (.5) Honors Painting(.5) Flower Design (.5-1) Honors Drawing (.5)
Related Completers:	Print Production, Textiles & Fashions, Video Production, Interactive Media Production			

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Business Management and Finance

Business Management and Finance

Lead and Innovate

- **Work Involved:** Sales campaigns, financial system design, business operations, record-keeping, and customer interactions.
- **Pathways:**
 - Honors Marketing and Sales
 - Management and Planning
 - Records and Communication
 - Financial Transactions
- **Considerations:**
 - Interest in numbers, data, and making decisions.
 - Ability to work independently in well-ordered environments.
- **Ideal for:**
 - Those with strong math skills and a knack for organization.
- **Related Careers**
 - Financial Analyst
 - Accountant
 - Marketing Manager
 - Human Resources Manager
 - Business Consultant
 - Entrepreneur
 - Investment Banker

COMPLETER: Accounting

CREDITS: 4

Related Careers: Accountants & Auditors, Financial Analyst, Credit Counselor, Tax Preparer, Bill & Account Collector, Bookkeeper, Budget Analyst, Loan Officer, Fraud Examiner & Analyst, Accounts Payable/Receivable				
Grade →	9	10	11	12
Completer Program Requirements (4 minimum credits)		Principles of Business Administration and Management (1)	Honors Accounting I (1) Accounting II (1)	Honors Business Education Capstone (1) or Honors Career Related Internship (1) or Dual Enrollment – (see your counselor) or AP Macroeconomics (1)
Career Specific Enrichment Courses	Recommended: Managing Personal Finance with Excel (1) AP Statistics, Business Communications & Keyboarding (1), Business Law (1), Honors Economics (.5)			
Certification and College Credit Opportunities	3 Transcribed Credits: Carroll Community College – ACCT 101			

CAREER MAJOR: Actuarial Science

CREDITS: 3

Related Careers: Actuary, Auditor, Insurance Analyst, Investment Analyst, Risk Analyst, Data Analyst				
Grade →	9	10	11	12
Career Major (3 minimum credits) *requires at least 1 credit of a statistics course		Managing Personal Finances Using Excel (1)	Probability & Statistics (1)* Honors Marketing (1) Honors Accounting I (1) Honors Economics (.5) Principles of Business Administration and Management (1) Accounting II (1)	Business Law (1) AP Statistics (1)* MATH 115 <i>Intro to Statistical Methods</i> at CCC* AP Macroeconomics (1) AP Human Geography (1)
Related Completers:	Accounting, Academy of Finance			

COMPLETER: Business Administration and Management

CREDITS: 4

Related Careers: General Operations Manager, Database Administrator, Administrative Services Manager, Business Operations Specialist, Business Teacher, Business Continuity Planner, Human Resources Specialist, Credit Counselor, Bill & Account Collector				
Grade →	9	10	11	12
Completer Program Requirements (4 minimum credits)		Principles of Business Administration and Management (1)	Honors Accounting I (1) Advanced Business Management (1)	Honors Business Education Capstone (1) or Honors Career Related Internship (1) or Dual Enrollment (see your counselor) or AP Macroeconomics (1)
Career Specific Enrichment Courses	Recommended: Managing Personal Finance with Excel (1) AP Statistics (1), Accounting II (1), AP Psychology (1), Business Law (1), Issues in American Society (.5), Psychology (1 – Acad, Hon, or AP), Sociology (.5), Business Communications & Keyboarding (1)			
Available College Credits and Certifications:	3 Transcribed Credits: Carroll Community College BUAD 101			

CAREER MAJOR: Economics

CREDITS: 3

Related Careers: Economist, Actuary, Compliance Officer, Data Analyst, Financial Risk Analyst, Internal Auditor				
Grade →	9	10	11	12
Career Major (3 minimum credits) *required		Principles of Business Administration and Management (1) Managing Personal Finance Using Excel (1)	Honors Marketing (1) Honors Accounting I (1) Accounting II (1) Issues in American Society (.5) Sociology (.5) Honors Economics (.5)	Business Law (1) AP Statistics (1) AP Macroeconomics (1)* AP Precalculus (1) AP Calculus A/B (1) AP Calculus B/C (1)
Career Specific Enrichment Courses	Honors International Studies (.5), AP Human Geography (1)			
Related Completers:	Accounting, Academy of Finance			

COMPLETER: [Financial Services](#) - NAF Endorsement

CREDITS: 5-7

Related Careers: Financial Advisor, Financial Manager, Treasurer, Comptroller, Budget Analyst, Real Estate Broker or Agent, Brokerage Clerks, Bank Teller, Insurance Agent, Operational Manager, Chief Financial Officer, Chief Compliance Officer				
Grade →	9	10	11	12
Completer Program Requirements (5 minimum credits)			Honors Accounting I (1) Honors Finance Academy I (1) Accounting II (1) (with AOF cohort)	Finance Academy II (1) AND Honors Academy of Finance Internship (1) OR Honors Career Related Internship (1)
Additional Requirements for NAF Endorsement (2 additional credits)		Managing Personal Finance Using Excel (1) (meets Financial Literacy requirement)		Dual Enrollment Course FN 215 Principles of Financial Management (1)
Career Specific Enrichment Courses	AP Macroeconomics (1), AP Statistics (1), Business Communications & Keyboarding (1), Principles of Business Administration and Management (1), Business Law (1), Honors Economics (.5)			
Certification and College Credit Opportunities	3 Transcribed Credits: Carroll Community College – ACCT 101 3 Dual Enrollment Credits: Carroll Community College – FN 215 (with AOF cohort)			

CAREER MAJOR: Human Resources Management

CREDITS: 3

Related Careers: Compensation and Benefits Specialist, Human Resources Specialists, Talent Manager, Labor Relations Specialist, Training & Development Specialist, Career Counselor, Hiring Manager				
Grade →	9	10	11	12
Career Major (3 minimum credits) *required	Business Communications & Keyboarding (1)	Public Speaking (.5) Principles of Business Administration and Management (1)*	Honors Marketing (1) Honors Accounting I (1) Psychology (1 – Acad, Hon, or AP)* Business Law (1) Managing Personal Finances Using Excel (1) Principles of Hospitality & Tourism (1)	Issues in American Society (.5) AP Statistics (1) Sociology (.5) Honors Law, Citizenship & Society (.5)
Related Completers:	Business Management			

CAREER MAJOR: International Business

CREDITS: 3

Related Careers: Bank Officer, Supply Chain Manager, Linguist, Procurement Manager, Management Analyst, Sales, Business Advisor, Foreign Affairs Specialist, Economist				
Grade →	9	10	11	12
Career Major (3 minimum credits) *required	Business Communications & Keyboarding (1)	Public Speaking (.5) Principles of Business Administration and Management (1)* Managing Personal Finance Using Excel (1)*	Honors World Language III (1) Honors Accounting I (1) Business Law (1) Sociology (.5) Psychology (1 – Acad, Hon, or AP) Honors Economics (.5) Honors Law Citizenship & Society (.5)	Honors or AP World Language IV (1) World Geography (.5) or AP Human Geography (1) Honors Marketing (1) AP Macroeconomics (1) AP Language and Composition (1) AP Literature and Composition (1) Honors International Studies (.5) AP Statistics (1)

COMPLETER: [Marketing](#)

CREDITS: 4

Related Careers: Social Media Marketing Coordinator, Wholesale & Retail Buyer, Marketing Executive Manager or Assistant Energy Broker, Public Relations Specialist, Business Intelligence Analyst, Advertising & Promotions Manager, Commercial & Industrial Designer, Insurance Sales Agent, Sales Representative, Purchasing Agent				
Grade →	9	10	11	12
Completer Program Requirements (4 Minimum credits)		Principles of Business Administration and Management (1)	Honors Accounting I (1) Honors Marketing (1)	Advanced Marketing (1)
Career Specific Enrichment Courses	❖ Recommended: Managing Personal Finance with Excel (1), AP Statistics (1), AP Macroeconomics (1) Advanced Business Management (1), Honors Principles of Art, Media and Communication (1), Business Communications & Keyboarding (1), Accounting II (1), Business Law (1), AP Human Geography (1), Issues in American Society (.5), Political Science (.5), Public Speaking (.5), Sociology (.5), Honors Career Related Internship (.5-3)			
Certification and College Credit Opportunities	Certification: Principles of Marketing – College Board CLEP 3 Transcribed Credits: Carroll Community College – MKTG 201 (Additional prereqs required by CCC to earn credit)			

CAREER MAJOR: Public Relations

CREDITS: 3

Related Careers: Public Relations Manager, Communications, Social Media Specialist, Brand Ambassador, Event Planner, Marketing Assistant, Copywriter, Publicist, Client Services Manager, Sales Representative, Digital Marketing Manager, Communications Director				
Grade →	9	10	11	12
Career Major (3 minimum credits) Required *	Business Communications & Keyboarding (1)	Honors Principles of Art, Media, and Communication (1) Principles of Business Administration & Management (1)	Public Speaking (.5)* Honors Marketing (1) Business Law (1) Honors World Language III (1) Psychology (1 – Acad, Hon, or AP)* Journalistic Writing (.5) Principles of Hospitality & Tourism (1) Managing Personal Finances Using Excel (1)	Honors Economics (.5) Sociology (.5) Creative Writing (.5) Honors or AP World Language IV (1) Honors Digital Media and Design (1) Popular Culture Language and Composition (.5)
Related Completers:	Marketing			

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Construction and Development

Construction and Development

Build the Future

- **Work Involved:** Skilled trades, construction, design, maintenance, and problem-solving.
- **Pathways:**
 - Vehicle Operation and Repair
 - Construction/Maintenance
 - Crafts and Related Services
 - Design, building, and maintaining structures
- **Considerations:**
 - Enjoy working with tools and equipment.
 - Ability to read blueprints and work safely.
- **Ideal for:**
 - Those who are mechanically inclined and enjoy hands-on projects.
- **Related Careers**
 - Architect
 - Civil Engineer
 - Construction Manager
 - Electrician
 - Plumber
 - Carpenter
 - Surveyor

COMPLETER: [Building Maintenance](#)**CREDITS: 4**

Related Careers: General Maintenance and Repair Worker, Grounds Maintenance Worker, Building Supervisor, Custodian, Property Manager, Facilities Manager				
Grade →	9	10	11	12
Completer Program Requirements				Building Maintenance I (3) Manufacturing and Construction Technologies (1)
Career Specific Enrichment Courses	AP Environmental Science (1), Probability & Statistics (1), AP Statistics (1), Agricultural Mechanical Technology (1), Honors Technological Design (1), Honors Career Related Internship (.5-3), Honors Advanced Design Applications (1), Public Speaking (.5)			
Certification and College Credit Opportunities	Certification: NCCT Core Exam v2 – National Center for Construction Education and Research (NCCER)			

COMPLETER: [Carpentry](#)**CREDITS: 6**

Related Careers: Carpenter (including Finish Carpenters, Civil Carpenters, Master Carpenter), Construction Project Manager, Cabinet Maker, Furniture Maker, Home Improvement Contractor				
Grade →	9	10	11	12
Completer Program Requirements			Carpentry I (3)	Carpentry II (3)
Career Specific Enrichment Courses	AP Physics 1 (1), AP Physics 2 (1), AP Physics C: Mechanics (1), AP Physics C: Electricity and Magnetism (1), AP Precalculus (1), Business Communication & Keyboarding (1), Honors Advanced Design Applications (1), Agricultural Mechanical Technology (1), Honors Career Related Internship (.5-1), Honors Technological Design (1), Weight Training (.5)			
Certification and College Credit Opportunities	Certification: NCCT Academic Carpentry Level I v2 – National Center for Construction Education and Research (NCCER) Certification: NCCT Academic Core v2 – National Center for Construction Education and Research (NCCER) Certification: OSHA 10 Up to 1 year toward Apprenticeship Associated Builders & Contractors 6 Articulated Credits: Community College of Baltimore County, Catonsville - Construction Technology			

COMPLETER: [Electrical Construction](#)**CREDITS: 6**

Related Careers: Electrician, Lighting Design Engineer, Stage Lighting Engineer, Project Manager, Business Owner, Alternative Energy Designer/Engineer				
Grade →	9	10	11	12
Completer Program Requirements			Electrical Construction I (3)	Electrical Construction II (3)
Career Specific Enrichment Courses	AP Physics 1 (1), AP Physics 2 (1), AP Physics C: Mechanics (1), AP Physics C: Electricity and Magnetism (1), AP Precalculus (1), Honors Advanced Design Applications (1), Agricultural Mechanical Technology (1), Business Communications & Keyboarding (1), Public Speaking (.5), Honors Career Related Internship (.5-3)			
Certification and College Credit Opportunities	Certification: NCCT Academic Electrical Level I v2 – National Center for Construction Education and Research (NCCER) Certification: NCCT Academic Core v2 – National Center for Construction Education and Research (NCCER) Certification: OSHA 10 Up to 1 year toward Apprenticeship Associated Builders & Contractors 6 Articulated Credits: Community College of Baltimore County, Catonsville - Construction Technology			

COMPLETER: [Heating, Ventilation, Air Conditioning](#)**CREDITS: 6**

Related Careers: HVAC Technician, HVAC Engineer, Ductwork Fabricator, Electronic Engineer, Sheet Metal Worker, Project Engineer, HVAC Consultant				
Grade →	9	10	11	12
Completer Program Requirements			HVAC I (3)	HVAC II (3)
Career Specific Enrichment Courses	AP Precalculus (1), AP Calculus AB (1), AP Physics 1 (1), AP Physics 2 (1), AP Physics C: Mechanics (1), AP Physics C: Electricity and Magnetism (1), Honors Advanced Design Applications (1), Honors Technological Design (1), Business Communications & Keyboarding (1), Public Speaking (.5), Technological Issues & Impacts (1), Weight Training (.5), Honors Career Related Internship (.5-3)			
Certification and College Credit Opportunities	Certification: NCCT Academic Core v2 – National Center for Construction Education and Research (NCCER) Certification: NCCT Academic HVAC – National Center for Construction Education and Research (NCCER) Certification: OSHA 10 Up to 1 year toward Apprenticeship Associate Builders and Contractors 6 Articulated Credits: Community College of Baltimore County, Catonsville – Construction Technology 6 Articulated Credits: University of Northwestern Ohio – Commercial HVAC & Refrigeration			

COMPLETER: [Masonry](#)**CREDITS: 6**

Related Careers: Mason, Home Builder/Designer, Landscape/Hardscape Designer, Patio/Driveway Designer & Builder, Construction Project Manager, Business Owner, Home Improvement Contractor				
Grade →	9	10	11	12
Completer Program Requirements			Masonry I (3)	Masonry II (3)
Career Specific Enrichment Courses	AP Physics 1 (1), AP Physics 2 (1), AP Precalculus (1), Honors Advanced Design Applications (1), Honors Technological Design (1), Honors Accounting I (1), Agricultural Mechanical Technology (1), Public Speaking (.5), Principles of Business Administration and Management (1), Weight Training (.5), Honors Career Related Internship (.5-3)			
Certification and College Credit Opportunities	Certification: NCCT Academic Masonry Level I v2 – National Center for Construction Education and Research (NCCER) Certification: NCCT Academic Core v2 – National Center for Construction Education and Research (NCCER) Certification: OSHA 10 Up to 1 year toward Apprenticeship Associated Builders & Contractors 6 Articulated Credits: Community College of Baltimore County, Catonsville - Construction Technology			

CAREER MAJOR: [Urban and Regional Planning](#)**CREDITS: 3**

Related Careers: Building Inspector, Urban/City Planner, Housing Development Manager, Zoning Inspector, Transportation Engineer, Transit Planner, Architect				
Grade →	9	10	11	12
Career Major (3 minimum credits)		Issues in American Society (.5) Honors Art II (.5-1)	Honors Advanced Design Applications (1) Managing Personal Finance using Excel (1) Aquatic Environmental Science and Terrestrial Environmental Science (1) Public Speaking (.5) Sociology (.5) Honors Economics (.5) Technological Issues & Impacts (1)	AP Statistics (1) AP Human Geography (1) AP Environmental Science (1) AP Macroeconomics (1)
Related Completers	Geographic Information Systems Technology			

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Consumer Services, Hospitality, and Tourism

Create Memorable Experiences

- **Work Involved:** Customer service in travel/tourism, hospitality management, event planning, and culinary arts.
- **Pathways:**
 - Food Service/Culinary Arts
 - Hospitality Management
 - Textiles and Fashion
 - Cosmetology
- **Considerations:**
 - Ability to quickly solve problems and communicate effectively.
 - Interest in organizing events and providing excellent service.
- **Ideal for:**
 - Those who enjoy dynamic environments and helping others.
- **Related Careers**
 - Hotel Manager
 - Event Planner
 - Travel Agent
 - Restaurant Manager
 - Retail Manager
 - Tour Guide
 - Customer Service Representative

Related Careers: Hairstylist, Salon Manager, Film & Theatre Hair Specialist, Hair Color Specialist, Editorial Stylist, Distributor Sales Consultant, Nail Technician, Manufacturer Educator				
Grade →	9	10	11	12
Completer Program Requirements			Principles & Practices of Cosmetology (3)	Adv. Cosmetology Theory & Application (3) Mastery of Cosmetology (3)
Career Specific Enrichment Courses	Honors Accounting I (1), Accounting II (1), Business Communications & Keyboarding (1), Business Law (1), Honors Economics (0.5), Honors Health III (0.5), Human Anatomy & Physiology (1), Principles of Business Administration and Management (1), Psychology I (1), Honors Career Related Internship (.5-3)			
Certification and College Credit Opportunities	1,000-hour letter/eligibility to participate in supervised work-based experience in a salon setting Certification: Maryland Cosmetology License – Maryland State Board of Cosmetology			

COMPLETER: [Culinary Arts](#)

CREDITS: 6

Related Careers: Restaurant Chef, Baking & Pastry Chef, Cook, Caterer, Restaurant Manager, Food Production Manager, Cake Decorator, Dietician				
Grade →	9	10	11	12
Completer Program Requirements			Culinary Arts I: Culinary Basics (3)	Culinary Arts II: Professional Baking & Pastry (3) OR Culinary Arts II: Professional Cooking (3)
Career Specific Enrichment Courses	Honors Accounting I (1), Accounting II (1), Advanced Foods (1), Business Communications & Keyboarding (1), Business Law (1), Honors Economics (0.5), Food & Nutrition Science (1), Honors Health III (0.5), Human Anatomy & Physiology (1), Intro. to Foods (0.5), Principles of Business Administration and Management (1), Psychology I (1), Sociology (0.5), AP World Language and Culture (1), Honors Career Related Internship			
Certification and College Credit Opportunities	Certification: ServSafe – Food Manager Certification: American Culinary Federation (ACF) – Certified Fundamentals Up to 18 Transcribed Credits: Stratford University – Culinary Arts 3 Articulated Credits: Anne Arundel CC – Hotel, Culinary Arts & Tourism 6 Articulated Credits: Frederick CC – Culinary Arts & Tourism			

CAREER MAJOR: Family and Consumer Studies

CREDITS: 3

Related Careers: Community Service Officer, Family Support Advocate, Retail Merchandiser, Nutritionist, Adoption Caseworker, Real Estate Agent, Child Care Worker/Director				
Grade →	9	10	11	12
Career Major (3 minimum credits) *2 credits required in Family & Consumer Sciences	Honors CASE Intro to Agriculture, Food, & Natural Resources (1)	Honors Child & Adolescent Development (1)* Learning Environment for Preschoolers (1)* Principles of Fashion & Interior Designs (.5-1)* Flower Design (.5-1)*	Adv. Foods (.5-1)* Food & Nutrition Science (1)* Honors Economics (.5) Foundations of Curriculum & Instruction (1)* Honors Teaching As A Profession (1)* Principles of Hospitality & Tourism (1)* Hospitality & Tourism Management (1)* CDA Portfolio & Internship (1)*	Sociology (.5) Psychology (1 – Acad, Hon, or AP) AP Macroeconomics (1) Issues in American Society (.5) Probability & Statistics (1)
Related Completers:	Child Development and Early Education (CDEE), Culinary Arts, Textiles & Fashion Careers, Teacher Academy of Maryland (TAM), Hospitality & Tourism Management			

CAREER MAJOR: Hospitality and Tourism Services

CREDITS: 3

Related Careers: Restaurant Management, Event Management, Wedding Planner, Catering Manager, Concierge, Director of Housekeeping, Restaurant Operations, Travel Agent, Meeting and Convention Planner				
Grade →	9	10	11	12
Career Major (3 minimum credits)	Business Communication & Keyboarding (1)	Principles of Business Administration and Management (1) Honors Humanities (.5) Honors Principles of Art, Media, and Communication (1)	Honors World Language III (1) Advanced Foods (.5) Honors Marketing (1) Honors Economics (.5) AP Human Geography (1) Principles of Hospitality & Tourism (1) Hospitality & Tourism Management (1)	World Geography (.5) Sociology (.5) Psychology (1 – Acad, Hon, or AP) Public Speaking (.5) World Language IV (1 – Hon or AP) Managing Personal Finance Using Excel (1) AP Statistics (1)
Related Completers:	Culinary Arts, Business Administration & Management, Hospitality & Tourism Management			

COMPLETER: [Hospitality & Tourism Management](#)

CREDITS: 6

Related Careers: Hotel Management, Guest Service Manager, Hotel Controller, Swimming Pool Manager, Dining Room Manager, Customer Service Representative, Room Service Manager, Banquet Captain, Reservations Manager, Meeting/Conference Planner, Concierge, Food & Beverage Controller				
Grade →	9	10	11	12
Completer Program Requirements		Principles of Hospitality & Tourism (1)	Hospitality & Tourism Management (1)	Hospitality & Tourism Work Based Learning (1)
Career Specific Enrichment Courses	Honors Economics (0.5), AP Precalculus (1), Issues in American Society (0.5), Honors Marketing (1), Principles of Business Administration and Management (1), Public Speaking (0.5), AP World Language and Culture (1), Business Communications & Keyboarding (1), AP Human Geography (1), Psychology (1 – Acad, Hon, or AP), Managing Personal Finance Using Excel (1)			
Certification and College Credit Opportunities	Certification: Hospitality and Tourism Specialist – American Hotel & Lodging Educational Institute			

COMPLETER: [Textiles and Fashion Careers](#)

CREDITS: 6

Related Careers: Fashion Designer, Costume Designer, Interior & Spatial Designer, Wholesale & Retail Buyer, Fashion Merchandiser, Fabric & Apparel Patternmaker, Merchandise Displayer and Window Trimmer, Tailor, Dressmaker, Custom Sewer, and Upholsterer				
Grade →	9	10	11	12
Completer Program Requirements			Textiles & Fashion Careers I (3)	Textiles & Fashion Careers II (2) Textiles & Fashion Careers Capstone (1)
Career Specific Enrichment Courses	Honors Art (0.5-1), Honors Digital Media and Design (0.5), Honors Economics (0.5), Issues in American Society (0.5), Honors Marketing (1), Principles of Business Administration and Management (1), Principles of Fashion and Interior Design (0.5-1), Public Speaking (0.5), AP Studio Art (1), AP World Language and Culture (1), Honors Career Related Internship (1-3)			
Certification and College Credit Opportunities	3 Articulated Credits: Stevenson University – Fashion Design			

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Environmental Agriculture and Natural Resources

Sustain and Preserve

- **Work Involved:** Agricultural production, energy distribution, natural resource management, environmental protection.
- **Pathways:**
 - Agricultural Sciences
 - Natural Resources
 - Animal Care
 - Environmental Studies
- **Considerations:**
 - Passion for the outdoors and working with animals.
 - Concern for environmental sustainability and problem-solving.
- **Ideal for:**
 - Those with an interest in science and a desire to protect nature.
- **Related Careers**
 - Environmental Scientist
 - Agricultural Engineer
 - Wildlife Biologist
 - Forester
 - Conservationist
 - Environmental Consultant
 - Farm Manager

COMPLETER: CASE Agricultural Science - Animal**CREDITS: 4**

Related Careers: Veterinarian, Vet Technician, Zookeeper, Wildlife Management, Agricultural Engineer, Agricultural Inspector, Natural Science Managers, Farm/Ranch Manager, Agricultural & Food Science Technician				
Grade →	9	10	11	12
Completer Program Requirements (4 minimum credits)	CASE -Introduction to Agriculture, Food, and Natural Resources (1)	CASE – Animal (1)	CASE – Animal and Plant Biotechnology (1)	CASE- Agriculture Business Research and Development (1)
Career Specific Enrichment Courses	AP Environmental Science (1), AP Biology (1), AP Chemistry (1), AP Statistics (1), AP Precalculus (1), AP Language & Composition (1), CASE Natural Resources & Ecology (1), CASE Plant (1), Honors CASE Environmental Science Issues (1), Honors Science Research I (1), Advanced Topics in Chemistry (1), Human Anatomy & Physiology (1), Managing Personal Finances Using Excel (1), Aquatic Environmental Science (.5), Terrestrial Environmental Science (.5), Honors Career Related Internship (.5-3)			
Certification and College Credit Opportunities	3 Transcribed Credits: University of Maryland Institute of Applied Agriculture – INAG 199C 6 Transcribed Credits: Rutgers University – Animal Science, Issues & Concepts in BioTech 9 Transcribed Credits: Delaware Valley University – Intro to Ag Business, Animal Science, Crop Science or Sustainable Agriculture			

COMPLETER: CASE Agricultural Science - Plant**CREDITS: 4**

Related Careers: Environmental Specialist, Forestry Management, Soil & Plant Scientist, Nursery Greenhouse Manager, Curator, Landscaper, Groundskeeper, Soil & Water Conservationist, Food and Safety Quality Control				
Grade →	9	10	11	12
Completer Program Requirements (4 minimum credits)	CASE - Introduction to Agriculture, Food, and Natural Resources (1)	CASE Agricultural Science - Plant (1)	CASE Agricultural Science – Animal and Plant Biotechnology (1)	CASE- Agriculture Business Research and Development (1)
Career Specific Enrichment Courses	AP Statistics (1), AP Precalculus (1), AP Environmental Science (1), AP Chemistry (1), AP Biology (1), Honors CASE Natural Resources & Ecology, CASE Animal (1), Honors CASE Environmental Science Issues (1), Honors Science Research (1), Advanced Topics in Chemistry (1), Aquatic Environmental Science (.5), Terrestrial Environmental Science (.5), Managing Personal Finances Using Excel (1), Honors Career Related Internship (.5 -3)			
Certification and College Credit Opportunities	3 Transcribed Credits: University of Maryland Institute of Applied Agriculture – INAG 199C 6 Transcribed Credits: Rutgers University – Plants & People, Issues & Concepts in BioTech 9 Transcribed Credits: Delaware Valley University – Intro to Ag Business, Horticulture, Crop Science or Sustainable Agriculture			

COMPLETER: CASE Natural Resources**CREDITS: 4**

Related Careers: Naturalist, Environmental Scientist, Land Manager, Environment Engineer, Forester, Conservationist, Park Ranger, National Park Service Worker, U.S. Forest Service worker, U.S. Fish & Wildlife Service Worker, Natural Resources Manager				
Grade →	9	10	11	12
Completer Program Requirements (4 minimum credits)	CASE - Intro to Agriculture, Food & Natural Resources (1)	Honors CASE Natural Resources and Ecology (1)	Honors CASE Environmental Science and Issues (1)	CASE - Agriculture Business Research and Development (1)
Career Specific Enrichment Courses	AP Environmental Science (1), AP Biology (1), AP Statistics (1), AP Precalculus (1), AP Language and Composition (1), AP Seminar (1), AP Chemistry (1), Managing Personal Finances Using Excel (1), Advanced Topics in Chemistry (1), Aquatic Environmental Science and Terrestrial Environmental Science (.5), Issues in American Society (.5), Honors Science Research I (1), Honors Career Related Internship (.5-3)			
Certification and College Credit Opportunities	3 Transcribed Credits: University of Maryland Institute of Applied Agriculture – INAG 199C 5 Transcribed Credits: Rutgers University – Principles of Natural Resource Management, Issues in Environmental Pollution 9 Transcribed Credits: Delaware Valley University – Intro to Ag Business, Principles of Ecology, Sustainability, Horticulture, Crop Science or Sustainable Agriculture			

CAREER MAJOR: Environmental Science**CREDITS: 3**

Related Careers: Environmental Engineer, Environmental Scientist, Wildlife Biologist, Environmental Health and Safety Specialist, Conservation Officer, Recycling Coordinator, Environmental Policy Analyst				
Grade →	9	10	11	12
Career Major (3 minimum credits)	Honors Introduction to Agriculture, Food and Natural Resources (1)	Honors Law Citizenship & Society (.5) Issues in American Society (.5)	Aquatic Environmental Science (.5) Terrestrial Environmental Science (.5) Public Speaking (.5) Health III (.5) AP Biology (1) Environmental Conservation (1)	Advanced Topics in Chemistry (1) Business Law (1) AP Environmental Science (1) Honors Science Research I (1) AP Statistics (1) AP Precalculus (1)
Related Completers:	CASE Animal, CASE Plant, CASE Natural Resources			

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Health and Biosciences

Improve Lives

- **Work Involved:** Healthcare services, medical research, and developing medical technologies.
- **Pathways:**
 - Medical Specialties and Technologies
 - Natural Sciences and Mathematics
 - Social Sciences
 - Engineering and Other Applied Technologies
- **Considerations:**
 - Strong aptitude in science, math, and a desire to help others.
 - Interest in medical research and healthcare.
- **Ideal for:**
 - Those who are detail-oriented and have a passion for medicine.
- **Related Careers**
 - Physician
 - Nurse
 - Pharmacist
 - Medical Researcher
 - Biomedical Engineer
 - Lab Technician
 - Physical Therapist

COMPLETER: [Academy of Health Professions](#)

CREDITS: 4 to 5

Related Careers: Nursing Assistant, Registered Nurse, Clinical Nurse Specialist, Physical Therapist Assistant, Pharmacy Technician, Pharmacist, Medical Assistant, Nurse Practitioner, Physician's Assistant, Occupational Therapist, Speech & Language Pathologist.				
Grade →	9	10	11	12
Option 1A Certified Nursing Assistant (C.N.A.) Option 1B Certified Nursing Assistant (C.N.A.) 4 Credits			Foundations Of Medicine and Health Science (1) Structure and Functions of the Human Body (1)	Foundations of Medicine and Health Science (1) Structure and Functions of the Human Body (1) CNA – Theory and Clinical (1) Honors Academy of Health Professions Internship (1-3) OR Dual Enrollment (1)
Option 2 Physical Rehabilitation (Personal Training Certification) <ul style="list-style-type: none"> • Physical Therapy • Occupational Therapy • Speech Pathology • Athletic Training • Sports Medicine 5 Credits				Foundations Of Medicine and Health Science (1) Structure and Functions of the Human Body (1) Physical Rehabilitation: Theory and Clinical (2) Dual Enrollment (I) Or Honors Academy of Health Professions Internship (1-3)
Option 3 Medical Specialty (at CCCTC) Certified Clinical Medical Assistant 5 Credits				Foundations Of Medicine and Health Science (1) Structure and Functions of the Human Body (1) CNA – Theory and Clinical (1) Specialized Medical Option (offered at Carroll Community College) (1) Honors Academy of Health Professions Internship (1-3)
Option 4 Medical Specialty (at Carroll Community College) Pharmacy Technician OR Dental Assistant & Oral Radiography 4 Credits			Foundations Of Medicine and Health Science (1) Structure and Functions of the Human Body (1) Specialized Medical Option (offered at Carroll Community College) (1)	Honors Academy of Health Professions Internship (1-3) OR Dual Enrollment – Allied Health prerequisite (Pharmacy Tech. Only) (1)
Career Specific Enrichment Courses	Business Communications and Keyboarding (1), Health II (0.5), Honors Health III (0.5), Human Anatomy & Physiology (1), Psychology I (1 – Acad, Hon, or AP), Public Speaking (0.5), Sociology (0.5), AP Statistics (1), DE Math 115 (1)			
Certification and College Credit Opportunities	Certifications: Certified Nursing Assistant, Geriatric Nursing Assistant, Certified Personal Trainer			

COMPLETER: [Biomedical Sciences](#) – Project Lead the Way Endorsement CREDITS: 4

Related Careers: Biomedical Engineer, NanoSystems Engineer, Family & General Practitioner, Biochemist, Forensic Science Technician, Geneticist, Bioinformatics Scientist, Veterinary Science, Research, Neuroscientist, Pharmacist				
Grade →	9	10	11	12
Completer Program Requirements			Principles of Biomedical Sciences (1) Human Body Systems (1)	Medical Interventions (1) Biomedical Innovation (1)
Program Specific Requirements	A college preparatory math and science course is required each year of high school.			
Career Specific Enrichment Courses	AP Biology (1), AP Chemistry (1), Health II (0.5), Honors Human Anatomy & Physiology (1), Honors Science Research I (1), Issues in American Society (0.5), Probability and Statistics (1), AP Statistics (1), AP Precalculus (1), Technical Issues & Impacts (I)			
Certification and College Credit Opportunities	8 Transcribed Credits: Stevenson University – BIO 113 & BIO 113L, BIO 222 12 Transcribed Credits: Missouri University of Science & Technology – BIO 1943, BIO 1953, BIO 1983, BIO 1993			

CAREER MAJOR: Environmental Health

CREDITS: 3

Related Careers: Public Health Administrator, Public Health Advisor, Food Safety Specialist, Food Inspector				
Grade →	9	10	11	12
Career Major (3 minimum credits)	Honors Introduction to Agriculture, Food and Natural Resources (1)	Food and Nutrition Science (.5) Advanced Foods (.5/1) Issues in American Society (.5)	Public Speaking (.5) Sociology (.5) Health III (.5) AP Biology (1) Human Anatomy & Physiology (1)	Business Law (1) Psychology (1) AP Statistics (1) AP Precalculus (1) Advanced Topics in Chemistry (1) AP Human Geography (1)
Related Completers:	Academy of Health Professions, PLTW BioMedical Sciences			

CAREER MAJOR: Food and Nutrition Science

CREDITS: 3

Related Careers: Food Scientist, Community Nutrition Educator, Nutritionist, Eating Disorder Therapist, Food Safety Inspector, Wellness Coach				
Grade →	9	10	11	12
Career Major (3 minimum credits) *required	Introduction to Agriculture, Food, & Natural Resources (1)	Issues in American Society (.5) Sociology (.5) Honors Child & Adolescent Development (1) Intro to Foods (.5/1)	Adv. Foods (.5/1) * Advanced Topics in Chemistry (1) Food & Nutrition Science (.5) Psychology (1 – Acad, Hon, or AP)	AP Biology (1) Science Research I (1) Human Anatomy & Physiology (1) Honors Health III (.5) AP Chemistry (1) AP Statistics (1) AP Precalculus (1)
Related Completers:	Culinary Arts			

CAREER MAJOR: Life Sciences

CREDITS: 3

Related Careers: Physician Assistant, Nurse, Nurse Practitioner, Medical Doctor, Podiatrist, Dentist, Phlebotomist, Optometrist, Pharmacist, Biologist, Medical Researcher, Microbiologist, Biomedical Engineer				
Grade →	9	10	11	12
Career Major (3 minimum credits)	Agriculture, Food, & Natural Resources (1)	Advanced Topics in Chemistry (1)	Aquatic Environmental Science (.5) Terrestrial Environmental Science (.5) Human Anatomy & Physiology (1) Environmental Conservation (1) AP Environmental Science (1) AP Precalculus (1)	AP Chemistry (1) Honors Science Research I (1) AP Biology (1) AP Physics 1 (1) AP Physics 2 (1) AP Physics C: Mechanics (1) AP Physics C: Electricity and Magnetism (1) AP Statistics (1) AP Calculus AB or BC
Related Completers:	Academy of Health Professions, CASE Natural Resources, Biomedical Sciences, Case Animal, Case Plant			

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Human Resource Services

Empower and Support

- **Work Involved:** Social services, health care, education, community aid, and personal services.
- **Pathways:**
 - General Health Care
 - Education and Related Services
 - Social and Government Services
 - Personal/Customer Services
- **Considerations:**
 - Ability to interact well with diverse groups of people.
 - Interest in helping others and improving their well-being.
- **Ideal for:**
 - Those who enjoy teaching, counseling, and supporting others.
- **Related Careers**
 - Human Resources Manager
 - Recruiter
 - Training and Development Specialist
 - Compensation and Benefits Manager
 - Labor Relations Specialist
 - Career Counselor
 - Employment Specialist

COMPLETER: Army Junior Reserve Officer Training Corps (JROTC)

CREDITS: 3

Related Careers: Military Officer (Air Force, Army, Coast Guard, Marine Corps, Navy, or Space Force), National Guard Officer, Community Leader, Civil Rights Worker, Youth Leader, Community Service Officer, Adventure Guide				
Grade →	9	10	11	12
Completer Program Requirements (3 minimum credits) *Optional Courses	Leadership Education & Training I (1)	Leadership Education & Training II (1)	Leadership Education & Training III (1)	*Leadership Education & Training IV, V, VI, VII, VIII (1)
Career Specific Enrichment Courses	AP Statistics (1), AP Human Geography (1), AP Government (1), AP Macroeconomics (1), Business Communications & Keyboarding (1), Honors World Language III (1), Peer Facilitating (.5), Issues in American Society (.5), Public Speaking (.5), Sociology (.5), World Geography (.5), Political Science (.5), Psychology (1 – Acad, Hon, or AP), Honors Economics (.5), Speech and Debate (.5), (1), Business Law (1), Honors Law, Citizenship & Society(.5), Honors Career Related Internship (.5-3)			
Certification and College Credit Opportunities	Advanced standing: Department of Defense – Upon enlistment, rank advancement to E-3 Advanced standing: 1 year of credit in the Senior ROTC program			

COMPLETER: Child Development and Early Education

CREDITS: 4-6

Related Careers: Preschool or Early Learning Teacher, Childcare Worker, Preschool & Childcare Center Education Administrator, Family & Child Social Worker, Camp Director, Speech Therapist, Behavioral Specialist, Elementary School Teacher				
Grade →	9	10	11	12
Completer Program Requirements		Honors Child & Adolescent Development (1)	Learning Environments for Preschoolers (1) CDA Portfolio & Internship (1)	CDA Internship (3) OR Dual Enrollment
Career Specific Enrichment Courses	Probability & Statistics (1), AP Statistics (1), Business Communications & Keyboarding (1), Psychology (1 – Acad, Hon, or AP), Sociology (.5), Principles of Business Administration and Management (1), Theatre I, II, III (.5-1.5), Peer Facilitating (.5), Public Speaking (.5), American Sign Language (.5), Exploring Music (1)			
Certification and College Credit Opportunities	Certification: Child Development Associate – Council for Professional Recognition 3 Articulated credits: Carroll Community College 3-6 Articulated credits: Stevenson University -Elementary Education or Early Childhood			

COMPLETER: Education – Teacher Academy of MD

CREDITS: 4

Related Careers: Elementary, Middle, or High School Teacher, Special Education Teacher, Media Specialist, School Counselor, Instructional Assistant, Child Psychologist, Speech Therapist, School Administrator, Coach				
Grade →	9	10	11	12
Completer Program Requirements		Honors Child & Adolescent Development (1)	Honors Teaching as a Profession (1) Foundations of Curriculum & Instruction (1)	Honors Education Academy Internship (1)
Career Specific Enrichment Courses	Note: Students should focus elective choices in the content area they aspire to teach (Content Specific coursework). Learning Environment for Preschoolers (1), American Sign Language (0.5), Business Communications & Keyboarding (1), Peer Facilitating (.5), Psychology (1 – Acad, Hon, or AP), Public Speaking (0.5), AP Statistics (1), AP Precalculus (1), Creative Writing (.5)			
Certification and College Credit Opportunities	Certification: Praxis Core Exam or ParaPro – Educational Testing Service Articulated credits: Bowie State, Carroll Community College, Community College of Baltimore County, Coppin State, Frederick Community College, Frostburg University, Hood College, McDaniel College, Morgan State, Notre Dame, Salisbury University, St. Mary’s College, Stevenson University, Towson University. Scholarships and guaranteed contract with CCPS upon successful completion of education degree			

CAREER MAJOR: History

CREDITS: 3

Related Careers: Historian, Curator, Archivist, Research Specialist, Writer, Politician, Paralegal, Reenactment Specialist, Librarian, Teacher, Lawyer				
Grade →	9	10	11	12
Career Major (3 minimum credits)	AP U.S. Government (1)	Ancient & Medieval History (.5) World Geography (.5) Hon. 20 th Century Novel (.5) Music History & Literature (.5/1) Sociology (.5),	AP Language & Composition (1) American Revolution & the Civil War (.5) Issues in American Society (.5) Mythology (.5) Public Speaking (.5)	AP European History (1) Shakespeare (.5) International Studies (.5) AP Research (1) AP Capstone (1) AP Human Geography (1) Honors Law, Citizenship & Society (.5)

COMPLETER: [Homeland Security and Emergency Preparedness-Criminal Justice/Law Enforcement](#)

CREDITS: 4

Related Careers: Police Officer, Criminal Investigator, Lawyer, Forensic Science Technician, Probation Officer, Corrections Officer, Customs Agent, Court reporter, TSA Screener, Juvenile Probation Counselor, Private Security				
Grade →	9	10	11	12
Completer Program Requirements (4 minimum credits)			Foundations of Homeland Security and Emergency Preparedness (1) Administration of Justice I (1)	Administration of Justice II (1) Homeland Security and Emergency Preparedness Capstone (1)
Career Specific Enrichment Courses	Business Communications & Keyboarding (1), Honors Law, Citizenship & Society (.5), Business Law (1), AP Human Geography (1), Issues in American Society (0.5), AP Macroeconomics (1), AP Statistics (1), AP Precalculus (1), Peer Facilitating (0.5), Political Science (0.5), Psychology (1 – Acad, Hon, or AP), Public Speaking (0.5), Sociology (0.5), World Geography (1), Honors World Language III (1), Honors Career Related Internship (.5 – 3)			
Certification and College Credit Opportunities	3 Transcribed Credits – Carroll Community College – Criminal Justice 3 Articulated Credits – Frederick Community College, University of Baltimore, University of Maryland University College			

CAREER MAJOR: International Studies

CREDITS: 3

Related Careers: Diplomat, Political Scientist, Translator, Intelligence Specialist, International Affairs Officer, Federal Government Personnel, Immigration Officer, International Advisor				
Grade →	9	10	11	12
Career Major (3 minimum credits)		Public Speaking (.5)	Honors World Language III (1) Sociology (.5) World Geography (.5) Honors International Studies (.5) Honors Economics (.5) Speech & Debate (.5) Public Speaking (.5)	Honors or AP World Language IV (1) AP Macroeconomics (1) Psychology (1 – Acad, Hon, or AP) Political Science (.5) AP Human Geography (1) AP Capstone: Research (1) AP Capstone: Seminar (1) AP Statistics (1) AP Precalculus (1)

CAREER MAJOR: Law and Legal Services

CREDITS: 3

Related Courses: Paralegal/Legal Assistant, Lawyer, Title Examiner, Compliance Specialist, Contract Administrator, Auditor, Law Enforcement Officer				
Grade →	9	10	11	12
Career Major (3 minimum credits)	Business Communications & Keyboarding (1)	Issues in American Society (.5) Managing Personal Finances Using Excel (1)	Public Speaking (.5) Sociology (.5) Honors Law, Citizenship & Society (.5) Political Science (.5) Psychology (1 – Acad, Hon, or AP) Honors Economics (.5) Honors World Language III (1) AP Research (1)	Speech and Debate (.5) AP Macroeconomics (1) AP Statistics (1) AP Precalculus (1) Business Law (1) AP US Government & Politics (1) Leadership Education & Training I (1)
Related Completers	Criminal Justice, Business Administration & Management			

CAREER MAJOR: Library and Information Sciences

CREDITS: 3

Related Careers: Librarian, Media Clerk, Media Specialist, Technology Support Specialist				
Grade →	9	10	11	12
Career Major (3 minimum credits)	Business Communications & Keyboarding (1)	Honors Child & Adolescent Development (1) Managing Personal Finances Using Excel (1) Music History & Literature (.5) AP Seminar (1) Journalistic Writing (.5)	Issues in American Society (.5) Honors Principles of Art, Media, and Communication (1) Public Speaking (.5) Honors Film & Literature (.5) Psychology (1 – Acad, Hon, or AP)	AP Capstone: Research (1) Newspaper Production (.5-1) Honors Humanities (.5) Honors Twentieth Century Novel (.5) Pop Culture & Composition (.5) AP Statistics (1)

CAREER MAJOR: Mathematics

CREDITS: 3

Related Careers: Math Teacher, Statistician, Mathematician, Actuary, Information Analyst, Financial Analyst				
Grade →	9	10	11	12
Career Major (3 minimum credits)		AP Computer Science A (1)	AP Statistics (1) Trig. & Pre-Calc. or Hon. Trig. & Pre-Calc. (1) AP Precalculus (1) Managing Personal Finance Using Excel (1) Honors Accounting I (1)	Honors Calculus (1) AP Calculus AB (1) AP Calculus BC (1) Honors Science Research I (1) AP Physics 1 (1) AP Physics 2 (1) AP Physics C: Mechanics (1) AP Physics C: Electricity and Magnetism (1)
Related Completers:	Computer Science, PLTW Engineering, Accounting			

CAREER MAJOR: Physical Science

CREDITS: 3

Related Careers: Engineer, Chemist, Forensic Scientist, Astronomer, Laboratory Technician, Meteorologist				
Grade →	9	10	11	12
Career Major (3 minimum credits)			Honors Trigonometry & Pre-Calculus (1) AP Precalculus (1) Honors Advanced Topics in Chemistry (1) AP Chemistry (1) AP Physics 1 (1) AP Physics C: Mechanics (1)	Science Research I or Honors Science Research I (1) AP Statistics (1) AP Physics 2 (1) AP Physics C: Electricity and Magnetism (1) AP Calculus AB (1) AP Calculus BC (1)
Related Completers:	PLTW BioMedical Sciences, PLTW Engineering			

CAREER MAJOR: Social Science

CREDITS: 3

Related Careers: Political Scientist, Economist, Psychologist, Politician, Geographer				
Grade →	9	10	11	12
Career Major (3 minimum credits)		World Geography (.5) Issues in American Society (.5) Honors International Studies (.5) Honors Child & Adolescent Development (1)	Political Science (.5) Sociology (.5) Public Speaking (.5) Honors Economics (.5) Honors World Language III (1) Popular Culture and Composition (.5)	AP Human Geography (1) Psychology (1 – Acad, Hon, or AP) AP Macroeconomics (1) AP Statistics (1) Speech & Debate (.5) Honors Humanities (.5) Honors Law, Citizenship & Society (.5)
Related Completers	Criminal Justice			

CAREER MAJOR: Social Work

CREDITS: 3

Related Careers: Social Worker, Community Case Manager, Child Welfare Specialist, Substance Abuse Counselor, School Counselor, Mental Health Advocate, Public Welfare Advocate, Psychologist				
Grade →	9	10	11	12
Career Major (3 minimum credits)		Honors Child & Adolescent Development (1) American Sign Language I (.5)	Psychology (1 – Acad, Hon, or AP) Political Science (.5) Sociology (.5) Public Speaking (.5) Honors World Language III (1) Honors Law, Citizenship & Society (.5) Learning Environment for Preschoolers (1) AP Human Geography (1)	AP Statistics (1) Peer Facilitating (.5) Issues in American Society (.5) Honors or AP World Language IV (1) Health III (.5) Leadership Education & Training I (1) CDA Portfolio/Internship (1)

CAREER MAJOR: Sports and Recreation

CREDITS: 3

Related Careers: Coach, Athletic Director, Sports Management, Sport Agent, Athletic Trainer, Exercise Physiologist, Personal Trainer				
Grade →	9	10	11	12
Career Major (3 minimum credits) Required *		Honors Child & Adolescent Development (1) Principles of Business Administration & Management (1)	Human Anatomy & Physiology (1) Personal Fitness (.5) Psychology (1 – Acad, Hon, or AP) Weight Training (.5) Dance 1 (1) Dance II (1)	Honors Health III (.5) AP Biology (1) AP Statistics (1) Sociology (.5) Individual/Dual Sports (.5) Team Sports (.5) Advanced Weight Training (1) Movement for Athletes (.5) Gymnastics & Tumbling (.5)
Related Completers	Academy of Health Professions			

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Information Technology

Innovate and Secure

- **Work Involved:** Computer systems, software development, cybersecurity, technical support.
- **Pathways:**
 - Home/Business Equipment Repair
 - Industrial Equipment Operation and Repair
 - Programming/Development of Software
 - Cybersecurity
- **Considerations:**
 - Problem-solving skills and an interest in technology.
 - Ability to code and work with information systems.
- **Ideal for:**
 - Those who are analytical and enjoy technical challenges.
- **Related Careers**
 - Software Developer
 - Network Administrator
 - IT Support Specialist
 - Cybersecurity Analyst
 - Data Analyst
 - Web Developer
 - Systems Engineer

COMPLETER: Computer Science**CREDITS: 3**

Related Careers: Computer and Information Research Scientist, Computer Programmer, Systems Analysts, Software Developer or Engineer, Computer Systems Engineers/Architects, Database Administrators, IT Project Manager, Network Security Engineer, Data Scientist				
Grade →	9	10	11	12
Completer Program Requirements (3 minimum credits) Prerequisite*	*Exploring Computer Science (1) or *AP Computer Science Principles (1)	AP Computer Science A (1)	Honors Advanced Topics in Computer Science (1)	Computer Science Capstone (1) <u>or</u> Honors Career Related Internship (1) <u>or</u> Dual Enrollment (see your counselor) (1)
Career Specific Enrichment Courses	Business Communications & Keyboarding (1), Managing Personal Finances Using Excel (1), Principles of Art, Media and Communication (1), AP Precalculus (1)			
Certification and College Credit Opportunities	Up to 9 credits through elective Advanced Placement Exams and/or dual enrollment credit			

COMPLETER: Cisco Networking Academy**CREDITS: 6**

Related Careers: Help Desk Operator, Support Technician, Network Support Technician, Network Support Engineer, Network Administrator, Network Designer, Network Engineer, Security Operations Analyst, Network Security Architect, Network Security Engineer, Network Security Specialist				
Grade →	9	10	11	12
Option 1: Cybersecurity Completer Program Requirements 6 credits			Cisco Cybersecurity I (3)	Cisco Cybersecurity II (3)
Option 2: Cyber Operations Completer Program Requirements 6 credits			Cisco Cyber Operations I (3)	Cisco Cyber Operations II (3)
Career Specific Enrichment Courses	AP Computer Science Principles (1), AP Computer Science A (1), Honors Advanced Topics in Computer Science (1), AP Statistics (1), AP Precalculus (1), AP Physics 1 (1), AP Physics 2 (1), Business Communications and Keyboarding (1), Honors Technological Design (1), Managing Personal Finances Using Excel (1), Honors Accounting I (1), Business Law (1), Honors Career Related Internship (.5-3)			
Certification and College Credit Opportunities	Certification: Security+, Network+ – Cybersecurity Certification: Linux+, Certified Associate Python Programmer (PCAP) – Cyber Operations Up to 16 Articulated credits: Community College of Baltimore County, Catonsville, Essex, or Dundalk – Information Technology Credits determined by certifications earned: Carroll Community College – Computer Science Credits determined on an Individual basis: Frederick Community College – Computer Science			

**COMPLETER: [Homeland Security and Emergency Preparedness-
Geographic Information Systems and Technology](#)**

CREDITS: 4

Related Careers: GIS Technician, Cartographer, Geographer, CAD Designer, GIS Analyst, Remote Sensing Analyst, Conservationist, Health Geographer, Urban/Regional Planner, Surveyor				
Grade →	9	10	11	12
Completer Program Requirements (4 minimum credits) *Optional Courses			Foundations of Homeland Security and Emergency Preparedness (1) S.T.A.R.S. Course 1 and 2 (1) Unmanned Aircraft Systems I (1)*	S.T.A.R.S. Course 3 and 4 (1) Homeland Security and Emergency Preparedness Capstone (1) Unmanned Aircraft Systems II (1)*
Career Specific Enrichment Courses	AP Human Geography (1), Business Communications & Keyboarding (1), World Language III (1), Peer Facilitating (.5), Honors Science Research I (1), Honors Career Related Internship (.5-1) Issues in American Society (.5), Public Speaking (.5), Sociology (.5), World Geography (.5), Political Science (.5), Psychology (1 – Acad, Hon, or AP), Honors Economics (.5), AP Government (1), Speech and Debate (.5), AP Macroeconomics (1), AP Statistics (1), AP Precalculus (1), AP Calculus AB (1), Business Law (1), Honors Law, Citizenship & Society(.5)			
Certification and College Credit Opportunities	6 Transcribed Credits: Harrisburg University – GTSC 140, GTSC 107*			

Manufacturing Engineering and Technology

Design and Create

- **Work Involved:** Product development, manufacturing processes, quality control, engineering.
- **Pathways:**
 - Digital Fabrication and Manufacturing
 - Drafting
 - Engineering-Project Lead the Way
 - Applied Mechanical Engineering
 - Product Development
- **Considerations:**
 - Creativity in design and a flexible thought process.
 - Ability to work in unstructured environments and meet deadlines.
- **Ideal for:**
 - Those who enjoy technical work and product innovation.
- **Related Careers**
 - Mechanical Engineer
 - Electrical Engineer
 - Industrial Engineer
 - Manufacturing Technician
 - Quality Control Inspector
 - Product Designer
 - CAD Technician

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COMPLETER: Applied Mechanical Engineering**CREDITS: 6**

Careers: Machinist, Tool & Die Maker, Mechanical Engineer, Industrial Machine Mechanic, Millwright				
Grade →	9	10	11	12
Completer Program Requirements			Applied Mechanical Engineering I (3)	Applied Mechanical Engineering II (3)
Career Specific Enrichment Courses	AP Precalculus (1), Honors Calculus (1), AP Calculus AB (1), AP Calculus BC (1), AP Physics 1 (1), AP Physics 2 (1), AP Physics C: Mechanics (1), AP Physics C: Electricity and Magnetism (1), Honors Advanced Design Applications (1), Business Communications & Keyboarding (1), Advanced Topics in Chemistry (1), Issues in American Society (.5), Public Speaking (.5), Technological Issues & Impacts (1), Honors Career Related Internship (.5-3)			
Certification and College Credit Opportunities	Certification: Measurement, Materials, and Safety - NIMS (National Institute for Metalworking Skills) Certification: Job Planning, Bench Work and Layout - NIMS (National Institute for Metalworking Skills) 17 Articulated Credits: Community College of Baltimore County, Catonsville – Computer Automated Manufacturing and Industrial Technology			

COMPLETER: Digital Fabrication and Manufacturing**CREDITS: 3**

Related Careers: Industrial Designer, Mechanical Engineer Technician, Drafter, Product Developer, Assembler & Fabricator, 3D Print Technician				
Grade →	9	10	11	12
Completer Program Requirements (3 credits minimum) *Optional Credits		Honors Advanced Design Applications (1)	Honors Technological Design (1) Introduction to 3D Printing (1)	Honors Digital Fabrication Capstone (1)*, Dual Enrollment* (see your counselor), Honors Career Related Internship (.5-3)*
Career Specific Enrichment Courses	AP Studio Art: 3D Design (1), Honors Digital Media and Design (.5), Art II: 2 & 3 D Art (.5-1), Honors Digital Design in Photography (.5), AP Computer Science Principles (1), AP Precalculus (1)			
Certification and College Credit Opportunities	3 transcribed credits: Carroll Community College – Intro to 3D Printing			

COMPLETER: Drafting**CREDITS: 6**

Related Careers: Drafter (including Civil, Mechanical, Electrical & Electronic, Architectural, Aeronautical, and Marine), Architect, Civil Engineering Technician, Surveying & Map Technician				
Grade →	9	10	11	12
Completer Program Requirements			Drafting I (3)	Drafting II (3)
Career Specific Enrichment Courses	AP Precalculus (1), Honors Calculus (1), AP Calculus AB (1), AP Calculus BC (1), AP Studio Art: 3D Design (1), Honors Advanced Design Applications (1), Honors Technological Design (1), Honors Principles of Art, Media and Communication (1), Honors Digital Media and Design (.5), Art II: 2 & 3 D Art (.5-1), Honors Career Related Internship (.5-3)			
Certification and College Credit Opportunities	Certification: AutoCAD for Design and Drafting – Autodesk Certified Professional 3 Articulated credits: Carroll Community College - Computer Aided Design 9 Articulated credits: CC of Baltimore County, Catonsville – Computer Aided Drafting and Design Up to 7 Articulated credits: Frederick CC – Computer Aided Drafting			

COMPLETER: [Engineering Technology](#) - Project Lead the Way Endorsement CREDITS: 5

Related Careers: Biochemical Engineer, Petroleum Engineer, Nanotechnology Engineer, Mechanical Engineer, Environmental Engineer, Agricultural Engineer, Product Safety Engineer, Aerospace Engineer, Industrial Engineer, Logistics Engineer				
Grade →	9	10	11	12
Completer Program Requirements			Honors Principles of Engineering (1) Intro to Engineering Design (1)	Computer Integrated Manufacturing (1) Digital Electronics (1) Honors Engineering Design & Development (1)
Program Specific Requirements	A college preparatory math and science course is required each year of high school.			
Career Specific Enrichment Courses	Honors Trig. & Pre-Calc (1), AP Precalculus (1), AP Calculus AB (1), AP Calculus BC (1), AP Physics 1 (1), AP Physics 2 (1), AP Physics C: Mechanics (1), AP Physics C: Electricity and Magnetism (1), Science Research I (1), AP Chemistry (1), Honors Advanced Design Applications (1), Honors Technological Design (1), Technological Issues & Impacts (1), Principles of Fashion & Interior Design (.5-1), AP Computer Science Principles (1), AP Computer Science A (1), Managing Personal Finance with Excel (1)			
Certification and College Credit Opportunities	16 Transcribed Credits: Rochester Institute of Technology – Engineering 3 Articulated Credits: University of Maryland Baltimore County – Engineering 3 Articulated credits: The Community Colleges of Baltimore County – Engineering Technology 3 Articulated credits: Frederick Community College – CAD			

CAREER MAJOR: Industrial and Product Design CREDITS: 3

Related Careers: Production Manager, Product Manager, Design Researcher, Industrial Designer, Interior Designer, Graphic Designer, Brand Strategist, Video Editor, Graphic Designer				
Grade →	9	10	11	12
Career Major (3 minimum credits) Required *		Honors Principles of Art. Media and Communication (1) Principles of Fashion & Interior Design (.5-1)	Honors Advanced Design Applications (1)* Honor Technological Design (1) Technological Issues & Impacts (1) Honors Marketing (1)	Honors Art II (.5-1) Honors Digital Design in Photography (1) AP Physics (1)
Related Completers:	Drafting, PLTW Engineering, Applied Mechanical Engineering, Interactive Media Production			

COMPLETER: [Welding Technology](#) CREDITS: 6

Related Careers: Welding Fabricator, Sheet Metal Worker, Welding Engineer, Welding Supervisor, Welding Inspector, Underwater Welder, Ironworker, Robotic Welding Technician, Boilermaker, Pipeline Welder, Shipfitter				
Grade →	9	10	11	12
Completer Program Requirements			Welding Technology I (3)	Welding Technology II (3)
Career Specific Enrichment Courses	AP Precalculus (1), AP Calculus AB (1), AP Physics 1 (1), AP Physics 2 (1), AP Physics C: Mechanics (1), AP Physics: Electricity and Magnetism (1), Honors Advanced Design Applications (1), Business Communications & Keyboarding (1), Managing Personal Finances Using Excel (1), Principles of Business Administration and Management (1), Public Speaking (0.5), Weight Training (0.5), World Language III (1), Honors Career Related Internship (.5-3)			
Certification and College Credit Opportunities	Certification: Certified Welder – American Welding Society Certification: NCCT Academic Welding – National Center for Construction Education and Research (NCCER) Certification: NCCT Academic Core v2 – National Center for Construction Education and Research (NCCER) Certification: OSHA 10 Up to 1 year toward Apprenticeship Associated Builders & Contractors			

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Transportation Technologies

Move the World

- **Work Involved:** Vehicle and infrastructure design, logistics, transportation system management.
- **Pathways:**
 - Automobile Services
 - Collision Repair
 - Heavy Equipment and Truck Technologies
- **Considerations:**
 - Mechanical aptitude and problem-solving skills.
 - Interest in vehicles and transportation systems.
- **Ideal for:**
 - Those who enjoy working with their hands and ensuring efficient transport solutions.
- **Related Careers:**
 - Automotive Technician
 - Aerospace Engineer
 - Logistics Manager
 - Transportation Planner
 - Pilot
 - Marine Engineer
 - Railroad Conductor

COMPLETER: [Auto Service Technology](#)**CREDITS: 6**

Related Careers: Automotive Master Mechanic, Automotive Technician, Automotive Service Advisor, Automotive Parts Specialist, Front End Specialist, Lube Technician, Automotive Engineering Technician, Automotive Service Manager				
Grade →	9	10	11	12
Completer Program Requirements			Auto Service Technology I (3)	Auto Service Technology II (3)
Career Specific Enrichment Courses	AP Environment Studies (1), AP Physics 1 (1) AP Physics 2 (1), Honors Advanced Design Applications (1), Honors Technological Design (1), Agricultural Mechanical Technology (1), Chemistry of Earth and Space Science (1), Business Communication & Keyboarding (1), Public Speaking (.5), Technological Issues & Impacts (1), Honors Career Related Internship (.5-1)			
Certification and College Credit Opportunities	Certification: Maintenance and Light Repair - Auto Service Excellence (ASE) Certification: Brakes - Auto Service Excellence (ASE) Certification: Electrical/Electronic Systems - Auto Service Excellence (ASE) Certification: Steering & Suspension - Auto Service Excellence (ASE) Certification: Engine Performance - Auto Service Excellence (ASE) Certification: Safety & Pollution Prevention (SP2) Up to 15 Articulated Credits: Community College of Baltimore County, Catonsville - Automotive Technology Up to 15 Articulated Credits: Penn College of Technology - Automotive Technology Up to 12 Articulated Credits: University of Northwestern Ohio – Automotive Technology Up to 4 Articulated credits: Universal Technical Institute - Automotive Technology			

COMPLETER: [Collision Repair Technology](#)**CREDITS: 6**

Related Careers: Auto Body Technician, Collision Repair Supervisor, Collision Repair Shop Owner, Master Automotive Painter, Collision Insurance Adjuster				
Grade →	9	10	11	12
Completer Program Requirements			Collision Repair Technology I (3)	Collision Repair Technology II (3)
Career Specific Enrichment Courses	AP Environmental Science (1), AP Physics 1 (1), AP Physics 2 (1), Honors Advanced Design Applications (1), Agricultural Mechanical Technology (1), Honors Accounting I (1), Principles of Business Administration and Management (1), Business Communications & Keyboarding (1), Public Speaking (.5), Honors Career Related Internship (.5-3), Honors Digital Media and Design (.5-1), Honors Art II (.5)			
Certification and College Credit Opportunities	Certification: Non-Structural Analysis and Damage Repair - Auto Service Excellence (ASE) Certification: Painting and Refinishing - Auto Service Excellence (ASE) Certification: Structural Analysis and Damage Repair - Auto Service Excellence (ASE) Certification: Safety & Pollution Prevention (SP2) 15 Articulated Credits: Community College of Baltimore County, Catonsville – Automotive Collision Repair & Refinishing Up to 16 Articulated Credits: Penn College of Technology - Auto Body/Collision Repair			

COMPLETER: [Heavy Equipment and Truck Technology](#)**CREDITS: 6**

Related Careers: Heavy Equipment Mechanic, Diesel Engine Mechanic, Farm Equipment Mechanic, Heavy Equipment Maintenance Specialist, Diesel Locomotive Mechanic, Fleet Maintenance Mechanic				
Grade →	9	10	11	12
Completer Program Requirements			Heavy Equipment & Truck Technology I (3)	Heavy Equipment & Truck Technology II (3)
Career Specific Enrichment Courses	AP Precalculus (1), AP Statistics (1), AP Environmental Science (1), AP Physics 1 (1), AP Physics 2 (1), Honors Advanced Design Applications (1), Honors Technological Design (1), Agricultural Mechanical Technology (1), Principles of Business Administration and Management (1), Business Communications & Keyboarding (1), Public Speaking (.5), Technological Impacts & Issues (1), Honors Career Related Internship (.5-3)			
Certification and College Credit Opportunities	Certification: Diesel Engines - Auto Service Excellence (ASE) Certification: Electrical/Electronic Systems - Auto Service Excellence (ASE) Certification: Brakes - Auto Service Excellence (ASE) Certification: Steering & Suspension - Auto Service Excellence (ASE) Certification: Safety & Pollution Prevention (SP2) Up to 8 Articulated Credits: Pennsylvania College of Technology - Diesel Technology: Heavy Construction Equipment: Technician, Operator or CAT Emphasis; or Electric Power Generation Technology Up to 12 Articulated Credits: University of Northwestern Ohio - Diesel Technology Up to 4 Articulated credits: Universal Technical Institute – Automotive Technology			

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Career Research & Development

Explore your career possibilities!

- **Work Involved:** Through related instruction and on-the-job training, build skills towards a career. Opportunities are available in a wide variety of industries.
- **Pathways:**
 - Apprenticeship Maryland Program
 - Registered Apprenticeship
 - Career Research & Development*
- **Considerations:**
 - Self-starter
 - Good work ethic
 - flexible
- **Ideal for:**
 - Those who learn as they go and can organize and structure their time well.
- **Related Careers:**
 - Almost any employer can sign up to be an apprenticeship site
 - See your Career Coordinator for more information

COMPLETER: [Apprenticeship Maryland*](#)**CREDITS: 4**

(*See Career Coordinator for Availability)

Related Careers: Designed to prepare students for careers/employment and/or further education and training specifically in career pathways in Manufacturing and Science, Technology, Engineering and Mathematics (STEM) occupations				
Grade →	9	10	11	12
Completer Program Requirements (4 minimum credits)			Apprenticeship Related Instruction (1)	Apprenticeship Work-Based Learning (3)
Career Specific Enrichment Courses	AP Precalculus (1), AP Statistics (1), Principles of Business and Management (1), Managing Personal Finance with Excel (1), Business Communication and Keyboarding (1), Public Speaking (.5), Coursework related to specific Apprenticeship content/pathway.			
Certification and College Credit Opportunities	Industry Recognized Credential (if applicable)			

COMPLETER: [Career Research & Development*](#)**CREDITS: 4**

(*See Career Coordinator for Availability)

Related Careers: Designed to prepare students for careers/employment and/or further education and training specifically in career pathways in Manufacturing and Science, Technology, Engineering and Mathematics (STEM) occupations				
Grade →	9	10	11	12
Completer Program Requirements (4 minimum credits) *Only Available in Specialized Programs		Career Research & Development (1)*	Career Preparation and Transition (1)*	Honors Career Research and Development Internship (1-2)*
Career Specific Enrichment Courses	AP Precalculus (1), AP Statistics (1), Principles of Business and Management (1), Managing Personal Finance with Excel (1), Business Communication and Keyboarding (1), Public Speaking (.5), Coursework related to specific CRD content/pathway.			
Certification and College Credit Opportunities	Industry Recognized Credential (if applicable)			

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INDEX OF CAREER COMPLETERS & CAREER MAJORS

NAME	COMPLETER/MAJOR	CAREER CLUSTER
Academy of Health Professions	Completer	Health & Biosciences
Accounting	Completer	Business, Management & Finance
Actuarial Science	Major	Business, Management & Finance
Applied Mechanical Engineering	Completer	Manufacturing, Engineering, & Technology
Apprenticeship Maryland	Completer	Career Research & Development
Army Junior Reserve Officer Training Corps (JROTC)	Completer	Human Resource Services
Auto Service Technology	Completer	Transportation Technologies
Biomedical Sciences / PLTW Endorsement	Completer	Health & Biosciences
Building Maintenance	Completer	Construction & Development
Business Administration & Management	Completer	Business, Management & Finance
Carpentry	Completer	Construction & Development
CASE Agricultural Science – Animal	Completer	Environmental, Agriculture, & Natural Resources
CASE Agricultural Science – Plant	Completer	Environmental, Agriculture, & Natural Resources
CASE Natural Resources	Completer	Environmental, Agriculture, & Natural Resources
Child Development & Early Education	Completer	Human Resource Services
Cisco Networking Academy	Completer	Information Technology
Collision Repair Technology	Completer	Transportation Technologies
Computer Science	Completer	Information Technology
Cosmetology	Completer	Consumer Services, Hospitality & Tourism
Culinary Arts	Completer	Consumer Services, Hospitality & Tourism
Dance	Major	Arts, Media, & Communications
Digital Fabrication & Manufacturing	Completer	Manufacturing, Engineering, & Technology
Drafting	Completer	Manufacturing, Engineering, & Technology
Economics	Major	Business, Management & Finance
Education – Teacher Academy of MD (TAM)	Completer	Human Resource Services
Electrical Construction	Completer	Construction & Development
Engineering Technology/PLTW Endorsement	Completer	Manufacturing, Engineering, & Technology
Environmental Health	Major	Health & Biosciences
AP Environmental Science	Major	Environmental, Agriculture, & Natural Resources
Family & Consumer Studies	Major	Consumer Services, Hospitality & Tourism
Financial Services/NAF Endorsement	Completer	Business, Management & Finance
Food & Nutrition Science	Major	Health & Biosciences
Graphic Communications	Major	Arts, Media, & Communications
Heating, Ventilation, Air Conditioning	Completer	Construction & Development
Heavy Equipment & Truck Technology	Completer	Transportation Technologies
History	Major	Human Resource Services
Homeland Security/Criminal Justice	Completer	Human Resource Services
Homeland Sec./Geo Info Systems and Technology	Completer	Information Technology
Hospitality & Tourism Services	Major	Consumer Services, Hospitality & Tourism
Hospitality & Tourism Management	Completer	Consumer Services, Hospitality & Tourism
Human Resources Management	Major	Business, Management & Finance
Industrial & Product Design	Major	Manufacturing, Engineering, & Technology
Interactive Media Production	Completer	Arts, Media, & Communications
International Business	Major	Business, Management & Finance
International Studies	Major	Human Resource Services
Law & Legal Services	Major	Human Resource Services
Library & Information Sciences	Major	Human Resource Services
Life Sciences	Major	Health & Biosciences
Marketing	Completer	Business, Management & Finance
Masonry	Completer	Construction & Development
Mass Communications	Major	Arts, Media, & Communications
Mathematics	Major	Human Resource Services
Music	Major	Arts, Media, & Communications
Physical Science	Major	Human Resource Services
Print Production	Completer	Arts, Media, & Communications
Public Relations	Major	Business, Management & Finance
Social Science	Major	Human Resource Services
Social Work	Major	Human Resource Services
Sports & Recreation	Major	Human Resource Services
Textiles & Fashion Careers	Completer	Consumer Services, Hospitality & Tourism
Theatre	Major	Arts, Media, & Communications
Urban & Regional Planning	Major	Construction & Development
Video Production	Completer	Arts, Media, & Communications
Visual Fine Arts	Major	Arts, Media, & Communications
Welding Technology	Completer	Manufacturing, Engineering, & Technology