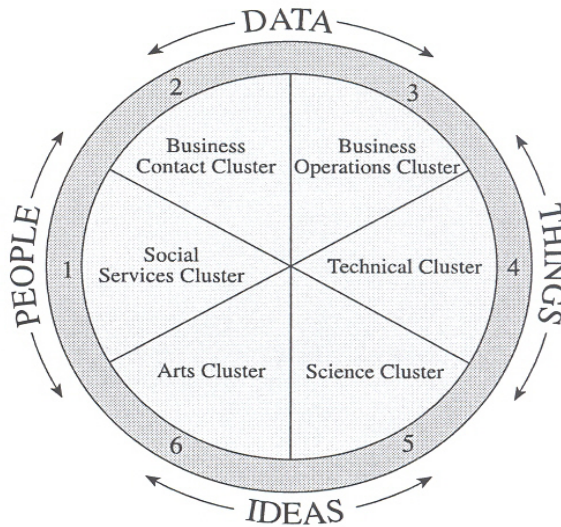


Carroll County Public Schools

Career Pathways



2012-13

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What type of work is involved in the *Arts* cluster?

- Individualized expression of creative or musical talent.
- Design, performing arts and fine arts.
- The application of artistic skills in the fields of photography, graphic arts, and design

What are the *Arts* Pathways?

- Applied Arts – Visual
- Creative and Performing Arts
- Applied Arts – Written and Spoken

What should you think about when considering a career in the *Arts* cluster?

Do You

- ❖ like art, music, drama, and other creative interests?
- ❖ like to display your imagination through artistic, literary, musical or dramatic abilities?
- ❖ have a need for individualistic expression?
- ❖ value esthetics and artistic qualities?
- ❖ prefer free, unstructured situations or unconventional ideas?
- ❖ enjoy being creative, flexible, innovative or imaginative?
- ❖ prefer creative and expressive interaction with people?
- ❖ enjoy being an original thinker?
- ❖ value creative communication and expression of ideas, emotions or sentiments?

If you answered YES to most of these questions, a career in the *Arts* cluster may be for you!

For more details, read on...

COMPLETERS

COMPLETER: *Floral Design*

CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Option 1 Completer Program Requirements			Floral Design I (3)	Floral Design II (3)
Option 2 Completer Program Requirements		Floral Design (.5-1)	Floral Design I OR II (3)	Internship (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Honors Financial Management Using Software Applications (1), Accounting I (1), Business Principles & Practices (1), Horticulture (1), Intro Agriculture, Food & Natural Resources (1), Marketing (1), Art II: 2 & 3 D Art (.5-1), Internship (.5-1)			
8 credits possible per year				
Value Added: From:	Articulated Credits (Individual articulations may be arranged.) Penn College of Technology			

COMPLETER: *Media Communications Technology*

CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements (#choose 1 credit from these)		Prerequisite: # Graphic Communications (1) #Honors Commercial Art (1)	Print Production (3)	Video Production (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Script Writing & Video Production (1), Journalistic Writing (.5), Psychology I or Honors Psychology I (1), Business Principles & Practices (1), Drama I, II, II (.5-1.5), Art II: 2 & 3 D Art (.5-1),-Technological Design (1), Marketing (1), Public Speaking (.5), Internship (.5-1)			
8 credits possible per year				
Value Added: End of Program Testing:	See Print Production and Video Production			

COMPLETER: *Print Production*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements (4 minimum credits) (#choose 1 credit from these)			#Graphic Communications (1) #Honors Commercial Art (1)	Print Production (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Art II: 2 & 3 D Art (.5-1), Journalistic Writing (.5), Psychology I or Honors Psychology I (1), Business Principles & Practices (1), Drama I, II, III (.5-1.5), Technological Design (1), Marketing (1), Newspaper Production (.5-1), Public Speaking (.5), Internship (.5-1)			
8 credits possible per year				
Value Added: From: Program:	3 articulated credits	4 articulated credits	4 articulated credits	4 articulated credits
	Carroll Community College	Art Institute of Washington	Montgomery College	Bridgemont Community & Technical College
	Computer Graphics	Advertising or Graphic Design	Desktop Publishing	Digital Design & Print Communications
End of Program Test: Industry: Taken:	Graphic Communications and Digital File Preparation/Digital File Output (Print Ed Certification)			
	Graphic Arts Education and Research Foundation (GAREF) - PrintED			
	During Print Production			

COMPLETER: *Textiles & Fashion Careers*

CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Option 1 Completer Program Requirements			Textiles & Fashion Careers I (3)	Textiles & Fashion Careers II (3)
Option 2 Completer Program Requirements (# Choose 2 credits from these)	#Clothing (.5-1) #Needlecraft (.5-1)	#Clothing (.5-1)	#Housing & Home Furnishings (.5)	Textiles & Fashion Careers I (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Technological Design (1), Clothing (.5-2), Business Principles & Practices (1), Economics (.5), Honors Commercial Art (.5), Housing & Home Furnishing (.5), Issues in American Society (.5), Marketing (1), Needlecraft (.5-1), Art II: 2 & 3 D Art (.5-1), Psychology I or Honors Psychology I (1), Public Speaking (.5), Internship (.5-1)			
8 credits possible per year				
Value Added: From: Program:	Pending Art Institute of York Fashion Marketing			

COMPLETER: *Video Production*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements (4 minimum credits) (# choose 1 credit from these)			# Graphic Communications (1) #Honors Commercial Art (1) #Script Writing & Video Production (1)	Video Production (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Art II: 2 & 3 D Art (.5-1), Journalistic Writing (.5), Psychology I or Honors Psychology I (1), Business Principles & Practices (1), Drama I, II, II (.5-1.5), Technological Design (1), Marketing (1), Public Speaking (.5), Internship (.5-1)			
8 credits possible per year				
Value Added: From: Program:	4 articulated credits Art Institute of Washington Digital Media Production			

MAJORS

CAREER MAJOR: *Drama*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Technical Theatre I (.5) Drama II (.5) Creative Writing (.5) Public Speaking (.5) Survey of Musical Style (.5)	Speech & Debate (5) Drama III (.5) Psych. I or Honors Psychology I (1) Business Principles & Practices (1)	Ancient & Medieval History (.5) Honors Humanities (.5) Shakespeare (.5) Script Writing & Video Production (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Advanced Design Applications (1), Technological Design (1), Drama I (.5), AP Psychology (1), Applied Dance (.5-1), Clothing (.5), Dance I (.5-1), Music Elective (.5-1), Internship (.5-1)			
8 credits possible per year				

CAREER MAJOR: *Graphic Communications*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Graphic Communications (1)	2 & 3 D Art (.5-1) Technological Design (1) Journalistic Writing (.5) Script Writing & Video Production (1)	Honors Digital Design in Photography (1) Honors Commercial Art (1) Yearbook Production (1) Psychology I or Honors Psychology (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	AP Psychology (1), Business Principles & Practices (1), Business Communication & Keyboarding (1), Honors Studio Art (.5-1), Marketing (1), Newspaper Production (.5-1), Print Production (3), Sociology (.5), Video Production (3), Internship (.5-1)			
8 credits possible per year				
Related Completers:	Print Production, Video Production, Drafting			

CAREER MAJOR: *Humanities & Classical Studies*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Mystery & Detective (.5) Mythology (.5) Honors 20 th Century Novel (.5)	AP Lang (1), Pop Culture & Composition (.5) Honors Latin III – Prose (1) Music History & Literature (.5-1)	Ancient & Medieval History (.5) AP Lit (1) Honors Humanities (.5) AP Latin Vergil (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Latin I (1), Business Communications & Keyboarding (1), Art I (.5-1), Drama I, II, III (.5-1.5), Survey of Musical Style (.5), Shakespeare (.5), Internship (.5-1)			
8 credits possible per year				

CAREER MAJOR: *Industrial & Product Design*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Graphic Communications (1)	Advanced Design Applications (1) Technological Issues & Impacts (1)	Technological Design (1) Art II: 2 & 3 D Art (.5-1) Honors Digital Design in Photography (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Business Communications & Keyboarding (1), AP Physics (1), Landscaping (.5), Science Research I or Honors Science Research I (1), Internship (.5-1)			
8 credits possible per year				
Related Completers:	Drafting, Engineering, Manufacturing and Machine Technologies			

CAREER MAJOR: *Music Performance*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Instrumental OR Choral Elective (1-4) Survey of Musical Style (.5) Music History & Literature (.5-1)	Business Principles & Practices (1) Chorus, Honors Chorus (.5-1) Band (1) Ensemble (.5-1) Stage Band, Honors Jazz Ensemble (1)	Honors Music Theory, AP Music Theory (.5-1) Vocal Ensemble, Hon. Vocal Ensemble (.5-1) Orchestra, Honors Orchestra (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Business Communications & Keyboarding (1), Band Front (.5), Dance I (.5-1), Drama I, II, III (.5 ea.), Exploring Music (1), Script Writing & Video Production (1), Shakespeare (.5), Electronic Music (.5-1),-Internship (.5-1)			
8 credits possible per year				

CAREER MAJOR: *Visual Fine Arts*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Art II: 2 & 3 D Art (.5-1) Graphic Communications (1)	Business Principles & Practices (1) Honors Commercial Art (1) Psychology I or Honors Psychology I (1) Honors Digital Design in Photography (1)	Applied Art (.5-1) Honors Studio Art, AP Studio Art (.5-1) Honors Humanities (.5)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	AP Psychology (1), Flower Design(.5-1), Honors Ceramics (.5-1), Honors Drawing I (.5), Honors Mixed Media (.5-1), Honors Painting (.5), Needlecraft (.5-1), Advanced Design Applications (1), Technological Design (1), Internship (.5-1)			
8 credits possible per year				
Related Completers:	Print Production, Video Production			

What type of work is involved in the *Business Contact* cluster?

- Initiating and carrying out sales campaigns.
- Using mathematical concepts to design financial and economic systems.
- Dealing with all kinds of people from civic leaders to the general public.

What are *Business Contact* Pathways?

- Marketing and Sales
- Management and Planning

What should you think about when considering a career in the *Business Contact* cluster?

Do You

- ❖ like working with facts, numbers, and data?
- ❖ like contact with all kinds of people?
- ❖ speak and write clearly and accurately?
- ❖ work independently?
- ❖ like making decisions?
- ❖ like initiating and carrying out projects?
- ❖ care about people, their needs and welfare?

If you answered YES to most of these questions, a career in the *Business Contact* cluster may be for you!

For more details, read on...

COMPLETERS

COMPLETER: *Marketing*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
	Business Communications & Keyboarding (1)			
Completer Program Requirements		Business Principles and Practices (1) Honors Financial Management Using Software Applications (1)	Marketing (1)	Advanced Marketing (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	AP Probability & Statistics (1), Accounting I, II (1-2), Business Law (1), Graphic Communications (1), Issues in American Society (.5), Office Systems Management (1), Political Science (.5), Public Speaking (.5), Sociology (.5), World Geography (.5), Technological Issues & Impacts (1), Internship (.5-1)			
8 credits possible per year				
Value Added:	9 credits			
From:	Community College of Baltimore County, Catonsville			
Program:	Business Management – Marketing			
End of Program Test:	Principles of Marketing			
Industry:	College Board – CLEP			
Taken:	End of Advanced Marketing			

MAJORS

CAREER MAJOR: *Advertising*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Graphic Communications (1)	Marketing (1) Honors Commercial Art (1) Public Speaking (.5) Creative Writing (.5)	Psychology I or Honors Psychology I (1) Script Writing & Video Production (1) Sociology (.5) Desktop Publishing (1) Economics (.5)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Art II: 2 & 3 D Art (.5), Adv. Marketing (1), AP Language & Composition (1), Business Law (1), Business Principles & Practices (1), Journalistic Writing (.5), Newspaper Production (.5-1), Honors Financial Management Using Software Applications (1), Internship (.5-1)			
8 credits possible per year				
Related Completers:	Marketing, Print Production, Video Production			

CAREER MAJOR: *Hospitality & Tourism*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Business Principles & Practices (1)	Honors World Language III (1) Marketing (1) Economics (.5)	World Geography (.5) Sociology (.5) Psychology I OR Honors Psychology I (1) Public Speaking (.5)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Accounting I (1), Advanced Marketing (1), AP Psychology (1), Creative Writing (.5), Honors or AP World Language IV (1), Honors Financial Management Using Software Applications (1), Internship (.5-1)			
8 credits possible per year				
Related Completers:	Culinary Arts, Business Administration & Management			

CAREER MAJOR: *International Business*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Public Speaking (.5) Business Principles & Practices (1)	Honors World Language III (1) Accounting I (1) Business law (1) Sociology (.5) Psychology I or Honors Psychology I (1) Economics (.5)	Honors or AP World Language IV (1) World Geography (.5) Marketing (1) AP Macroeconomics (1) (2) AP Language and Composition (1) AP Literature and Composition (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Business Communications & Keyboarding (1), Accounting II (1), Adv. Marketing (1), AP Psychology (1), AP Probability & Statistics (1), Issues in American Society (.5), Honors Financial Management Using Software Applications (1), Internship (.5-1)			
8 credits possible per year				

CAREER MAJOR: *Mass Communications*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Drama I (.5)	Journalistic Writing (.5) Drama II (.5) Public Speaking (.5) Creative Writing (.5) Script Writing & Video Production (1) Honors World Language III (1)	Psychology I or Honors Psychology I(1) Honors Financial Management Using Software Applications (1) Business Law (1) Honors or AP World Language IV (1) AP Language and Composition (1) AP Literature and Composition (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Graphic Communications (1), Popular Culture and Composition (.5), Honors Film and Literature (.5), Business Communications & Keyboarding (1), AP Psychology (1), Business Principles & Practices (1), Economics (.5), Marketing (1), Music Elective (.5-1), Sociology (15), Speech & Debate (.5), Internship (.5-1)			
8 credits possible per year				
Related Completers:	Print Production, Video Production			

CAREER MAJOR: *Public Relations*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Graphic Communications (1)	Public Speaking (.5) Marketing (1) Business Law (1) Honors World Language III (1)	Economics (.5) Sociology (.5) Adv. Marketing (1) Creative Writing (.5) Honors or AP World Language IV (1) AP Language and Composition (1) AP Literature and Composition (1) Popular Culture Language and Composition (.5)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Business Communications & Keyboarding (1), Honors Commercial Art (1), AP Probability & Statistics (1), AP Psychology (1), Desktop Publishing (.5), Music Elective (.5-1), Honors Financial Management Using Software Applications (1), Internship (.5-1), Art II:2 & 3 D Art (.5-1)			
8 credits possible per year				
Related Completers:	Marketing			

What type of work is involved in the *Business Operations* cluster?

- Recording, posting, and filing of business records.
- Organization, accuracy, neatness, and attention to detail.
- Office work and contact with customers.
- Application of math and business concepts.

What are *Business Operations* Pathways?

- Records and Communication
- Financial Transactions
- Storage and Dispatching
- Business Machine and Computer Operation

What should you think about when considering a career in the *Business Operations* cluster?

Do You . . .

- ❖ prefer well ordered environments?
- ❖ like systematic verbal and numerical activities?
- ❖ enjoy working with tools, machines, and equipment?
- ❖ like a predictable work setting?
- ❖ prefer to work along?
- ❖ perform work tasks to meet standards of accuracy?
- ❖ enjoy using math skills?
- ❖ like well-defined tasks?

If you answered YES to most of these questions, a career in *Business Operations* cluster may be for you!

For more details, read on...

COMPLETERS

COMPLETER: *Accounting*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements	Business Communications & Keyboarding (1)	Business Principles & Practices (1) Honors Financial Mgmt. Using Software Applications (1)	Honors Accounting I (1)	Accounting II (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	AP Macroeconomics (1), Business Law (1), Desktop Publishing (1), Economics (.5), Honors Calculus (1), AP Calculus AB (1), AP Calculus BC (1), Honors Finance Academy I (2), Office Systems Management (1), Internship (.5-1)			
8 credits possible per year				
Value Added: From? Program:	3 Transcribed Credits Carroll Community College Accounting			
End of Program Test: Industry: Taken:	Accounting 101 Final Exam Carroll Community College At the end of Accounting II			

COMPLETER: *Administrative Services*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	Health (.5)	PE (1)		
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements	Prerequisite: Business Communications & Keyboarding (1)	Business Principles & Practices (1)	Honors Financial Management Using Software Applications (1)	Office Systems Management (1) Advanced Software Applications (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Accounting I (1), Business Law (1), Desktop Publishing (1), Marketing (1), Internship (.5-1)			
8 credits possible per year				
Value Added: From: Program:	Up to 27 Articulated credits Carroll Community College Office Technology			
End of Program Test: Industry: Taken:	Microsoft Office Specialist Word or Excel Exam Microsoft At the end of Advanced Software Applications			

COMPLETER: *Business Administration & Management*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements		Business Principles & Practices (1) Honors Financial Management Using Software Applications (1)	Honors Accounting I (1)	Honors E-Commerce and Entrepreneurship (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	AP Probability & Statistics (1), Accounting II (1), AP Psychology (1), Business Law (1), Honors Calculus, AP Calculus AB, AP Calculus BC (1), Issues in American Society (.5), Psychology I or Honors Psychology I (1), Sociology (.5), Internship (.5-1)			
8 credits possible per year				
Value Added: From: Program:	3 Articulated credits Community College of Baltimore County, Catonsville, Essex or Dundalk Business Management			
End of Program Test: Industry: Taken:	Microsoft Office Specialist, Specialist Excel Exam OR CLEP Principles of Management Exam College Board - CLEP At the end of Honors E-Commerce and Entrepreneurship			

COMPLETER: *Computer Technology*

CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements			Honors Computer Technology I (3)	AP Computer Technology II (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Graphic Communications (1), Script Writing and Video Production (1), Business Communications & Keyboarding (1), Honors Financial Management Using Software Applications (1), Math Elective Beyond Alg. II/Data Analysis (.5-1), Accounting I, II (1-2), Business Law (1), Business Principles & Practices (1), AP Prob. & Statistics (1), Internship (.5-1)			
8 credits possible per year				
Value Added: From: Program:	Up to 12 Articulated credits Carroll Community College Computer Information Systems	10 Articulated credits Community College of Baltimore County, Catonsville, Essex, or Dundalk Information Technology		
End of Program Test: Industry: Taken:	Advanced Placement Computer Science A Exam College Board Spring after AP Computer Technology II			

COMPLETER: *Financial Services/National Academy of Finance Endorsement*

CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
	Business Communications & Keyboarding (1)			
Completer Program Requirements		Prerequisite: Honors Financial Mgmt. Using Software Applications (1)	Honors Accounting I (1) Honors Finance Academy I (2)	Accounting II (1) Honors Finance Academy II (1) Honors Academy of Internship (1)
Additional Requirements for NAF Endorsement (8 credits)	Freshman Seminar (.5) (Strongly encouraged by NAF)			Concurrent Enrollment in finance course (.5) Additional Internship-Internship combined with above (1); paid
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Business Principles & Practices (1), Business Law (1), Economics (.5), Office Systems Management (1), Honors E-Commerce & Entrepreneurship (1)			
8 credits possible per year				
Value Added: From: Program:	3 Transcribed credits via Financial Services completer; 6 total Transcribed credits via Academy of Finance Carroll Community College Accounting			

MAJORS

CAREER MAJOR: *Actuarial Science*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Honors Financial Management Using Software Applications (1)	Marketing (1) Accounting I (1) Economics (.5)	Business Law (1) AP Prob. & Stats. (1) Math Elective beyond Alg. II/Data Analysis (.5-1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Business Principles & Practices (1), AP Macroeconomics (1), Accounting II (1), Adv. Marketing (1), Trig & Pre-Calc. or Hon. Trig & Pre-Calc (1), Psychology I or Honors Psychology I (1), Sociology (.5), Internship (.5-1)			
8 credits possible per year				
Related Completers:	Accounting			

CAREER MAJOR: *Human Resources Management*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Public Speaking (.5)	Marketing (1) Honors Accounting I (1) Psychology I or Honors Psychology I (1) Business Law (1)	Issues in American Society (.5) AP Probability & Stat. (1) Sociology (.5) AP Psychology (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Business Communications & Keyboarding (1), Business Principles & Practices (1), Desktop Publishing (.5), Economics (.5), Honors Financial Management Using Software Applications (1), Internship (.5-1)			
8 credits possible per year				

CAREER MAJOR: *Information Systems Management*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)			Business Principles & Practices (1) Honors Financial Management Using Software Applications (1) Economics (.5)	AP Prob. & Stats. (1) Accounting I (1) Math Elective beyond Alg. II/Data Analysis (1) Adv. Software Applications (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Technological Issues and Impacts (1), Business Principles & Practices (1), AP Macroeconomics (1), Accounting II (1), Adv. Marketing (1), Trig & Pre-Calc. or Hon. Trig & Pre-Calc (1), Psychology I or Honors Psychology I (1), Sociology (.5), Internship (.5-1)			
8 credits possible per year				
Related Completers:	Accounting, Computer Technology, Cisco Networking Academy			

CAREER MAJOR: *Operations Management*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Business Principles & Practices (1)	Marketing (1)	Honors Accounting I (1) Honors Financial Management Using Software Applications (1) Business Law (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Advanced Design Applications (1), Technological Design (1), Advanced Marketing (1), AP Psychology (1), Economics (.5), Psychology I or Honors Psychology I (1), Sociology (.5), Internship (.5-1)			
8 credits possible per year				
Related Completers:	Building Maintenance			

What type of work is involved in the *Science* cluster?

- Planning and conducting research.
- Collecting and applying systematic accumulation of knowledge in related branches of mathematics, life, physical and social science.
- Observing and classifying facts in laboratory research.
- Applying information in the fields of mathematics, medicine, life, physical and social sciences.
- Studying the environment, world cultures, and people.

What are *Science* Pathways?

- Engineering & Other Applied Technologies
- Medical Specialties and Technologies
- Natural Sciences and Mathematics
- Social Sciences

What should you think about when considering a career in the *Science* cluster?

Do You . . .

- ❖ have an aptitude in science, math, or social studies?
- ❖ have a curiosity about how things work?
- ❖ have the ability to gather and analyze data to solve problems?
- ❖ have an aptitude in working with computers?
- ❖ have a desire to help people resolve medical and health related concerns?
- ❖ have a concern for physical and mental fitness?
- ❖ have an interest in politics, history, economics, or geography?

If you answered YES to most of these questions, a career in the *Science* cluster may be fore you!

For more details, read on...

COMPLETERS

COMPLETER: *Academy of Health Professionals*

CREDITS: 4 to 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	Chemistry II (1)
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Option 1 Surgical Technology or Health Care Technician Completer Program Requirements 6 credits				Honors Foundations of Medicine and Health Science (1) Honors Structure and Functions of the Human Body (1) CNA – Theory and Clinical (1) Honors Surgical Technology (includes clinical) (3) OR Honors Health Care Technician (includes clinical) (3)
Option 2 Certified Nursing Assistant (C.N.A.) Completer Program Requirements 4- 6 credits				Honors Foundations of Medicine and Health Science (1) Honors 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 3 Physical Rehabilitation (Physical Therapy, Occupational Therapy, Speech Pathology, Athletic Training, Sports Medicine) Completer Program Requirements 5 to 6 credits				Honors Foundations of Medicine and Health Science (1) Honors Structure and Functions of the Human Body (1) Physical Rehabilitation: Theory and Clinical (1) Honors Academy of Health Professions Internship (1-2) AND Dual Enrollment # (1)
Option 4 Medical Specialty (Pharmacy Tech., Dental Asst., Optometric Tech.)				Honors Foundations of Medicine and Health Science (1) Honors Structure and Functions of the Human Body (1) Specialized Medical Option* (1) *Offered at Carroll Community College Academy of Health

Grade →	9	10	11	12
				Professional Internship (1-3) OR Dual Enrollment# (1)
Program Specific Requirements	# Dual Enrollment is required in a credit bearing math or science course that is part of a related health careers sequence.			
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Technological Issues and Impacts (1), Business Communications and Keyboarding (1), Health II (.5), Human Anatomy & Physiology or Honors Human Anatomy & Physiology (1), Math Elective beyond Alg. II/DA (.5-1), AP Biology, AP Chemistry (1), AP Psychology (1), Biology II (1), Psychology I or Honors Psychology I (1), Public Speaking (.5), Sociology (.5), Internship 3 (.5-2)			
8 credits possible per year				
Value Added:	Receives required C.N.A. Certification hours			
End of Program Test: Industry: Taken:	Certified Nursing Assistant Exam / Geriatric Nursing Assistant Exam or Determined by coursework Maryland Board of Nursing or Carroll Community College During CNA – Theory and Clinical or During Specialized Medical Option			

COMPLETER: *Animal & Veterinary Science*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements	Intro to Agriculture, Food, & Natural Resources (1)	Animal Care & Management (1)	Veterinary Science (1)	Ag Coop/Internship (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Equine Science (.5), Technological Issues and Impacts (1), Math Elective beyond Alg./DA – Course 3 (.5-1), Biology II (1), AP Biology (1), AP Chemistry (1), Psychology I or Honors Psychology I (1), Public Speaking (.5), Sociology (.5)			
8 credits possible per year				
Value Added: From: Program:	2 Articulated credits The Community College of Baltimore County, Essex Veterinary Technology			

COMPLETER: *Biomedical Sciences – Project Lead the Way Endorsement*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	Chemistry II (1)
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements			Honors Principles of Biomed. Sciences (1) Honors Human Body Systems (1)	Honors Medical Interventions (1) Honors Biomedical Research (1)
Program Specific Requirements	A college preparatory math and science course is required each year of high school. See chart above.			
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied) 8 credits possible per year	Human Anatomy & Physiology or Honor Human Anatomy & Physiology (1), Science Research I or Honors Science Research I (1), AP Biology (1), AP Chemistry (1), Technological Issues & Impacts (1), Health II (.5), Issues in American Society (.5), Veterinary Science (1), Probability & Statistics or AP Probability & Statistics (1)			
Value Added: From:	4 Transcribed credits Stevenson University			
End of Program Test: Industry: Taken:	To Be Determined Project Lead the Way / Stevenson University To Be Determined			

COMPLETER: *Geographic Information Systems & Technology* CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics 91)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements (4 minimum credits)			Foundations of Homeland Security and Emergency Preparedness (1) S.T.A.R.S. Course 1 & 2 (1)	S.T.A.R.S. Course 3 and 4 (1) Internship/Capstone Experience (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Business Communications & Keyboarding (1), AP Language & Composition (1), Honors World Language III (1), Science Research I or Honors Science Research I (1), World Geography (.5), AP Probability & Statistics (1), AP Environmental Studies (1), Technological Issues & Impacts (1), Issues in American Society (.5), AP Government (1)			
8 credits possible per year				
Value Added: From: Program:	TBD			
End of Program Test:	S.T.A.R.S. Entry-Level Technician Exam			
Industry:	GIS (Geographic Information Systems)			
Taken:	TBA			

COMPLETER: *Horticulture* CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements #Choose .5 credit from these courses)	Intro to Agriculture, Food, & Natural Resources (1)	Agricultural Mechanical Technology (1)	#Landscaping (.5) Or #Flower Design (.5-1)	Horticulture (1) Ag Coop/Internship (.5)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Honors Financial Management Using Software Applications (1), Math elective beyond Alg. II/DA (.5-1), Business Principles & Practices (1), Marketing (1)			
8 credits possible per year				
Value Added: From: Program:	6 Articulated credits Community College of Baltimore County, Dundalk Horticulture			

COMPLETER: *Wildlife & Natural Resources*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements	Intro to Agriculture, Food & Natural Resources (1)	Agricultural Mechanical Technology (1)	Wildlife Management (.5)	Environmental Conservation (1) Ag Coop/Internship (.5)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Honors Financial Management Using Software Applications (1), Math Elective Beyond Alg. II/Data Analysis (.5-1), AP Biology (1), AP Prob. & Stats. (1), Technological Issues & Impacts (1), Business Principles & Practices (1), Ecology (.5), Issues in American Society (.5), Science Research I or Honors Science Research I (1)			
8 credits possible per year				
Value Added: From: Program:	2 Articulated credits Allegany College of Maryland Forest Technology			

MAJORS

CAREER MAJOR: *Computer Science & Systems Analysis*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)			Honors Financial Management Using Software Applications (1) AP Probability & Stats. Math elective beyond Alg. II/DA (.5-1)	Science Research I or Honors Science Research I (1) Trig & Pre-Calc. or Hon. Trig & Pre-Calc. (1) Adv. Software Applic. (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Advanced Design Applications (1), Technological Design (1), Honors Alg./DA – Course 3 (1), Business Principles (1), AP Calculus AB (1), AP Calculus BC (1), Internship (.5-1)			
8 credits possible per year				
Related Completers:	Computer Technology			

CAREER MAJOR: *Economics*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Business Principles & Practices (1)	Marketing (1) Accounting I (1) Issues In American Society (.5) Sociology (.5) Economics (.5)	Business Law (1) AP Probability & Statistics (1) AP Macroeconomics (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Accounting II (1), Honors Financial Management Using Software Applications (1), Advanced Marketing (1), Internship (.5-1)			
8 credits possible per year				
Related Completers:	Accounting			

CAREER MAJOR: *Environmental Health*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Health II (.5) Issues in American Society (.5)	Ecology (1) Public Speaking (.5) Sociology (.5) Biology II or Honors Biology II (1)	Chemistry II or Honors Chemistry II (1) Business Law (1) AP Environmental Studies (1) Science Research I or Honors Science Research I (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	AP Biology (1), AP Chemistry (1), AP Psychology (1), Environmental Conservation (1), Psychology I or Honors Psychology I (1), Science Research II or Honors Science Research II (1), Technological Issues & Impacts (1), World Geography (.5), Internship (.5-1)			
8 credits possible per year				
Related Completers:	Academy of Health Professions, Emergency Service Technology			

CAREER MAJOR: *Food & Nutrition Science*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
		Foundations of Technology (1)		
Career Major (4 minimum credits)		Issues in American Society (.5)	Adv. Foods (1) Food & Nutrition Science (1) Human Anatomy & Physiology or Honors Human Anatomy & Physiology (1) Health II (5)	Chemistry II or Honors Chemistry II (1) Biology II or AP Biology (1) Science Research I or Honors Science Research I (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Introduction to Agriculture, Food, & Natural Resources (1), AP Chemistry (1), AP Probability & Stat. (1), Psychology I or Honors Psychology I (1), Sociology (.5), Internship (.5-1)			
8 credits possible per year				
Related Completers:	Culinary Arts, Food Service & Hospitality Management (ProStart)			

CAREER MAJOR: *History*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Ancient & Medieval History (.5) World Geography (.5) Honors 20 th Century Novel (.5)	American Revolution & the Civil War (.5) Issues in American Society (.5) Mythology (.5)	AP European History (1) Shakespeare (.5) International Studies (.5)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Business Communications & Keyboarding (1), Art I (.5-1), Honors Humanities (.5), Music History & Literature (.5-1), Sociology (.5), Survey of Musical Style (.5), Internship (.5-1)			
8 credits possible per year				

CAREER MAJOR: *International Studies*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Public Speaking (.5)	Honors World Language III (1) Sociology (.5) World Geography (.5) International Studies (.5) Economics (.5)	Honors or AP World Language IV (1) AP Macroeconomics (1) Psychology I or Honors Psychology I (1) Political Science (.5)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Business Communications & Keyboarding (1), AP Probability & Statistics (1), AP European History (1), AP Language & Composition (1), AP Literature & Composition (1), AP Psychology (1), Issues in American Society (.5), Marketing (1), Speech & Debate (.5), Internship (.5-1)			
8 credits possible per year				

CAREER MAJOR: *Life Science*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Horticulture (1)	Biology II (1) Ecology (1) Chemistry II or Honors Chemistry II (1) Health II (.5) Environmental Conservation (1) AP Biology (1) AP Environmental Studies (1)	Science Research I or Honors Science Research I (1) Human Anatomy & Physiology or Honors Human Anatomy & Physiology (1) Math elective beyond Alg. II/DA (.5-1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Veterinary Science (1), AP Probability & Stat. (1), Honors Calculus (1), AP Calculus AB (1), Trig & Pre-Calc. or Honors Trig. & Pre-Calc (1), AP Physics (1), Wildlife Management (15), Internship (.5-1)			
8 credits possible per year				
Related Completers:	Academy of Health Professions, Animal & Veterinary Science, Horticulture, Wildlife & Natural Resources			

CAREER MAJOR: *Mathematics*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)			Alg. II/DA (1) AP Probability & Stats. (1) Trig. & Pre-Calc. or Hon. Trig. & Pre-Calc. (1)	Honors Calculus, AP Calculus AB, AP Calculus BC (1) Science Research I or Honors Science Research I (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Graphic Communications (1), Chemistry II or Honors Chemistry II (1), Advanced Design Applications (1), Technological Design (1), Honors Principles of Engineering (1), Internship (.5)			
8 credits possible per year				
Related Completers:	Computer Technology			

CAREER MAJOR: *Physical Science*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)			Advanced Design Applications (1) Chemistry II or Honors Chemistry II (1) AP Chemistry (1) AP Physics (1)	Technological Design (1) Science Research I or Honors Science Research I (1) Math elective beyond Alg. II/DA (.5-1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	AP Probability & Stat. (1), Honors Calculus (1), AP Calculus AB (1), AP Calculus BC (1), Trigonometry & Pre-Calculus or Honors Trigonometry & Pre-Calculus (1), World Geography (.5), Internship (.5-1)			
8 credits possible per year				
Related Completers:	Academy of Health Professions, Animal & Veterinary Science, Horticulture, Wildlife & Natural Resources			

CAREER MAJOR: *Social Science*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		World Geography (.5) Issues in American Society (.5)	Psychology I or Honors Psychology I (1) Political Science (.5) Sociology (.5) Public Speaking (.5) Economics (.5) Honors World Language III (1)	AP Psychology (1) AP Macroeconomics (1) Speech & Debate (.5) Honors Humanities (.5) Honors or AP World Language IV (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Business Communications & Keyboarding (1), History Elective (.5-1), Child & Adolescent Development (1), Technological Issues & Impacts (1), Music History & Literature (.5-1) Peer Facilitating (.5), Personal Relations & Effective Parenting (1), Popular Culture and Composition(.5), Internship (.5-1)			
8 credits possible per year				

What type of work is involved in the *Social Services* cluster?

- Includes positions of high responsibility in caring for the personal needs and welfare of others in fields of social service, health, and education.
- Involves providing services to persons and catering to the tastes, desires, and welfare of others in fields of personal service.

What are *Social Services* Pathways?

- General Health Care
- Education and Related Services
- Social and Government Services
- Personal/Customer Service

What should you think about when considering a career in the *Social Services* Cluster?

Do You

- ❖ get along with a wide variety of people?
- ❖ enjoy sharing ideas with others?
- ❖ enjoy helping others learn new things or acquire information?
- ❖ enjoy reading about or studying how society works and the interactions of individuals or groups of people?
- ❖ enjoy providing service to other people?
- ❖ seeing to their comfort, or enhancing their appearance?

If you answered YES to most of these questions, a career in the *Social Services* cluster may be for you!

For more details, read on...

COMPLETERS

COMPLETER: *Cosmetology*

CREDITS: 9

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1) Biology (1)	Human Anatomy & Physiology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements			Principles & Practices of Cosmetology (3)	Adv. Cosmetology Theory & Application (3) Mastery of Cosmetology (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Business Principles and Practices (1), Public Speaking (.5)			
8 credits possible per year				
Value Added:	1,000 hour letter/eligibility to participate in supervised work based experience in a salon setting			
End of Program Test:	State Board Cosmetology Exam			
Industry:	Maryland State Board of Cosmetology			
Taken:	At the end of Mastery of Cosmetology			

COMPLETER: *Culinary Arts*

CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	French I (1)	French II (1)		
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 Electives (may be taken any year offered after prerequisites have been satisfied)	Advanced Foods (1), Science Elective (.5-1), Accounting I, II (1 ea.), Business Law (1), Business Principles & Practices (1), Business Communications & Keyboarding (1), Economics (.5), Food & Nutrition Science (1), Health II (.5), Human Anatomy & Physiology or Honors Human Anatomy & Physiology (1), Psychology I or Honors Psychology I (1), Sociology (.5), Internship (.5-1)			
8 credits possible per year				
Value Added:	Up to 10 Articulated Credits Howard Community College Hospitality Management		American Culinary Federation (ACF) Certification	Up to 7 Articulated Credits Baltimore International College Culinary Arts
End of Program Test:	ACF – Culinary Arts, Cook Level 2		ACF – Retail Commercial Baking	
Industry:	American Culinary Federation		American Culinary Federation	
Taken:	At the end of Culinary Arts II: Professional Cooking		At the end of Culinary Arts II: Baking and Pastry	

COMPLETER: *Early Childhood Education*

CREDITS: 5

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements		Honors Child & Adolescent Development (1) Child Development Laboratory (1)	Advanced Child Development Laboratory (1)	Early Childhood Education Seminar & Internship (2)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Business Communications & Keyboarding (1), Psychology I or Honors Psychology I (1), Sociology (.5), Art Elective (1), AP Psychology (1), Business Principles & Practices (1), Drama I, II, III (.5-1.5), Health II (.5), Music Elective (.5), Peer Facilitating (.5), Personal Relationships & Effective Parenting (1), Public Speaking (.5)			
8 credits possible per year				
Value Added: From: Program:	Receives required State certification hours	6 Articulated credits Carroll Community College Early Childhood Education	3-6 Articulated credits Stevenson University Elementary Education or Early Childhood	
End of Program Test: Industry: Taken:	ParaPro Exam Educational Testing Service At the end of Seminar & Internship			

COMPLETER: *Education – Middle & High School / Teacher Academy of MD*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements		Honors Child & Adolescent Development (1)	Honors Teaching as a Profession (1) Foundations of Curriculum & Instruction (1)	Education Academy Internship (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Students should focus elective choices in the content area they aspire to teach. Business Communications and Keyboarding (1), Psychology I or Honors Psychology I (1), AP Psychology (1), Drama I, II, III (.5-1.5), Peer Facilitating (.5), Personal Relationships & Effective Parenting (1), Public Speaking (.5)			
8 credits possible per year				
Value Added: From: Program:	3 Articulated credits Community College of Baltimore County Teacher Education	4 Articulated Credits Carroll Community College Teacher Education Program	3 Transcribed Credits Towson University Teacher Education	
End of Program Test: Industry: Taken:	ParaPro Exam Educational Testing Service Foundations of Curriculum & Instruction			

COMPLETER: *Emergency Service Technology*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements				Emergency Service Technology (4)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Technological Issues and Impacts (1), Business Communications & Keyboarding (1), Health II (.5), Human Anatomy & Physiology or Honors Human Anatomy & Physiology (1), AP Biology (1), Biology II (1), AP Psychology (1), Issues in American Society (.5), Psychology I or Honors Psychology (1) Public Speaking (.5), Sociology (.5), Internship (.5)			
8 credits possible per year				
Value Added: From: Program:	Approved by ACE/PONSI for college equivalent credit	5 Articulated Credits Community College of Baltimore County, Catonsville Emergency Medical Technology		
End of Program Test: Industry: Taken:	EMT-B, HAZMAT, Firefighter I, Rescue Technology, & Truck Company Operations Maryland Fire & Rescue Institute At the completion of each section during Emergency Services Technology			

COMPLETER: *Food Service & Hospitality Management (ProStart)* CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements		Prerequisite: Introduction to Foods (1)	Business Principles and Practices (1) Food Service Professional (1)	Food Service Professional II (1) Internship (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	French I (1), French II (1), Science Elective (.5-1), Accounting I, II (1 ea.), Business Law (1), Business Principles & Practices (1), Business Communications & Keyboarding (1), Economics (.5), Health II (.5), Human Anatomy & Physiology or Honors Human Anatomy & Physiology (1), Psychology I or Honors Psychology I (1), Sociology (.5),			
8 credits possible per year				
Value Added: From: Program:	ProStart Affiliated Colleges		6-7 articulated credits Paul Smith's College Culinary Arts and Service Management	
End of Program Test: Industry: Taken:	ProStart and ServSafe Exams ProStart and ServSafe At the end of Food Service Professional I and II			

MAJORS

CAREER MAJOR: *Family & Consumer Studies*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Child Development Laboratory (1)	Adv. Foods (1) Food & Nutrition Science (1) Housing & Home Furnishings (.5) Economics (.5)	Sociology (.5) Psychology I or Honors Psychology I (1) Personal Relationships & Effective Parenting (1) A.P. Macroeconomics (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Child & Adolescent Development (1), Chemistry II or Honors Chemistry II (1), Adv. Child Dev. Laboratory (1), Art Elective (1), Clothing (.5-2), Flower Design (.5-1), Health II (.5), Advanced Design Applications (1), Technological Design (1), Issues in American Society (.5), Journalistic Writing (.5), Marketing (1), Music Elective (.5-1), Needlecraft (.5-1), Public Speaking (.5), Internship (.5-2)			
8 credits possible per year				
Related Completers:	Early Childhood Education, Culinary Arts, Floral Design, Textiles & Fashion Careers, Food Service & Hospitality Management (ProStart)			

CAREER MAJOR: *Law & Legal Services*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Issues in American Society (.5)	Public Speaking (.5) Sociology (.5) World Geography (.5) Political Science (.5) Psychology I or Honors Psychology I (1) Economics (.5) AP Government (1)	Speech and Debate (.5) AP Macroeconomics (1) AP Psychology (1) AP Probability & Stat. (1) Business Law (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Business Communications & Keyboarding (1), AP Language & Composition (1), Honors World Language III (1), Peer Facilitating (.5), Science Research I or Honors Science Research I (1), World Geography (.5), Internship (.5-1)			
8 credits possible per year				

CAREER MAJOR: *Library & Media*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Business Communications & Keyboarding (1) Honors Financial Management Using Software Applications (1)	Graphic Communications (1) Desktop Publishing (1) Issues in American Society (.5) Script Writing & Video Production (1) Public Speaking (.5)	Newspaper Production (.5-1) Honors Humanities (.5) Honors Twentieth Century Novel (.5) Media Assistant (.5-1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Drama I, II, III (.5 ea.), Honors British Lit & Com. (1), Honors Survey of American lit and Comp. (1), Psychology I or Honors Psychology I (1) Internship (.5-1), Journalistic Writing (.5),-Mythology (.5), Shakespeare (.5)			
8 credits possible per year				

CAREER MAJOR: *Social Work*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Child & Adolescent Development (1)	Psychology I or Honors Psychology I (1) Political Science (.5) Sociology (.5) Public Speaking (.5) Leadership Dev. (.5) Honors World Language III (1)	AP Psychology (1) Peer Facilitating (.5) Personal Relations & Effective Parenting (1) Issues in American Society (.5) Honors or AP World Language IV (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	AP Probability & Statistics (1), Child Development Laboratory (1), Advanced Child Development Laboratory (1), AP Language & Composition (1), Economics (.5), Health II (.5), American Sign Language (.5), Internship (.5-1)			
8 credits possible per year				

CAREER MAJOR: *Sports & Recreation*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)			Health II (.5) Human Anatomy & Physiology or Honors Human Anatomy & Physiology (1) Personal Fitness (.5) Psychology I or Honors Psychology I (1) Weight Training (.5)	Biology II, AP Biology (1 ea.) Organization & Admin. In Physical Education (.5) Sociology (.5) Honors Financial Management Using Software Applications (1) Individual/Dual Sports (.5) Team Sports (.5)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	AP Probability & Statistics (1), Applied Dance (.5-1), Business Principles and Practices (1), Child & Adolescent Development (1), Dance I (.5-1), Gymnastics & Tumbling (.5), Marketing (1), Public Speaking (.5), Internship (.5-1)			
8 credits possible per year				
Related Completers	Academy of Health Professions			

CAREER MAJOR: *Urban & Regional Planning*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	World Language (1)	World Language (1)		
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
Career Major (4 minimum credits)		Issues in American Society (.5)	Technological Design (1) Advanced Design Applications (1) Ecology (1) Public Speaking (.5) Sociology (.5) World Geography (.5) Economics (.5)	Environmental Conservation (1) AP Probability & Statistics (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Business Communications & Keyboarding (1), AP Environmental Studies (1), AP Macroeconomics (1), Landscaping (.5), Political Science (.5), Psychology I or Honors Psychology I (1), Honors Financial Management Using Software Applications (1), Speech & Debate (.5), Technological Issues & Impacts (1), Art II: 2 & 3 D Art (.5-1), Internship (.5-1)			
8 credits possible per year				

What type of work is involved in the *Technical* cluster?

- Responsibility for engineering and structural design in the manufacture, construction, and transportation of products or utilities.
- Working with one's hands in a skilled trade concerned with construction, manufacture, installation or repair of products.
- Applying problem solving abilities to design and execute solutions for today's technical challenges.
- The creation of systems that perform a useful task.

What are *Technical Pathways*?

- Vehicle Operation and Repair
- Construction/Maintenance
- Agriculture & Natural Resources
- Crafts and Related Services
- Home/Business Equipment Repair
- Industrial Equipment Operation and Repair

What should you think about when considering a career in the *Technical* cluster?

Do You

- ❖ have an understanding of cause and effect?
- ❖ have problem solving and math skills?
- ❖ enjoy working with tools and equipment?
- ❖ perform work tasks to meet standards of accuracy?
- ❖ have mechanical ability?
- ❖ have manual dexterity and hand-eye coordination?
- ❖ have the ability to form mental images of objects or structures from drawings?

If you answered YES to more of these questions, a career in the *Technical* cluster may be for you!

For more details, read on...

COMPLETERS

COMPLETER: *Auto Service Technology*

CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements			Auto Service Technology I (3)	Auto Service Technology II (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Advanced Design Applications (1), Technological Design (1), Math Elective beyond Alg. II/DA (.5-1), Science Elective (.5-1), Agricultural Mechanical Technology (1), Chemistry I or Honors Chemistry I (1), Business Communication & Keyboarding (1), Public Speaking (.5), Trigonometry & Pre-Calculus or Honors Trigonometry & Pre-Calculus (1), Technological Issues & Impacts (1), Internship (.5-1)			
8 credits possible per year				
Value Added:	Up to 15 Articulated Credits	Up to 15 Articulated Credits	Up to 12 Articulated Credits	Up to 4 Articulated credits
From:	Community College of Baltimore County, Catonsville	Penn College of Technology	University of Northwestern Ohio	Universal Technical Institute
Program:	Automotive Technology	Automotive Technology	Automotive Technology	Automotive Technology
End of Program Test:	NA3SA Exams in Brakes, Electrical/Electronic Systems, Engine Performance, and Suspension/Steering			
Industry:	National Automotive Student Skills Standards Assessment (NA3SA)			
Taken:	At the completion of each section during Auto Service Technology I & II			

COMPLETER: *Building Maintenance*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language I	World Language I		
Completer Program Requirements			Advanced Design Applications (1) or Technological Design (1)	Building Maintenance I (4)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Agricultural Mechanical Technology (1), Math elective beyond Alg. II/D.A. (1), Internship (.5-1)			
8 credits possible per year				
End of Program Test:	NCCT Core Exam v2			
Industry:	National Center for Construction Education and Research (NCCER)			
Taken:	At the end of Building Maintenance I			

COMPLETER: *Carpentry*

CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements			Carpentry I (3)	Carpentry II (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Advanced Design Applications (1), Technological Design (1), Agricultural Mechanical Technology (1), Math elective beyond Alg. II/D.A. (1), Internship (.5-1)			
8 credits possible per year				
Value Added: From: Program:	Up to 1 year toward Apprenticeship Associated Builders & Contractors	6 Articulated Credits Community College of Baltimore County, Catonsville Construction Technology		
End of Program Test: Industry: Taken:	NCCT Academic Carpentry Level I v2 National Center for Construction Education and Research (NCCER) At the end of Carpentry I		NCCT Academic Core v2 National Center for Construction Education and Research (NCCER) At the end of Carpentry II	

COMPLETER: Cisco Networking Academy

CREDITS: 5 - 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Option 1 Completer Program Requirements 6 credits			CCNA: Discovery I & II (3)	CCNA: Discovery III & IV (3) OR PC Hardware and Software (3)
Option 2 Completer Program Requirements 5 credits			CCNA: Discovery I & II (3)	IT Internship (2) OR Dual Enrollment (2)
Option 3 Completer Program Requirements 5 credits				PC Hardware and Software (3) IT Internship (2) OR Dual Enrollment (2)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Advanced Design Applications (1), Technological Design (1), Honors Financial Management Using Software Applications (1), Accounting I (1), Business Law (1), Internship (.5-1)			
8 credits possible per year				
Value Added: From: Program:	Up to 16 Articulated Credits Community College of Baltimore County, Catonsville, Essex, or Dundalk Information Technology			
End of Program Test: Industry: Taken:	Cisco CCENT CCNA / CompTIA A+ certification CISCO / CompTIA At the end of CCNA Discovery / PC Hardware and Software			

COMPLETER: *Collision Repair Technology*

CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements			Collision Repair Technology I (3)	Collision Repair Technology II (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Advanced Design Applications (1), Technological Design (1), Math Elective beyond Alg. II/DA (.5-1), Accounting I (1), Business Principles & Practices (1), Business Communications & Keyboarding (1), Public Speaking (.5), Internship (.5-1)			
8 credits possible per year				
Value Added:	15 Articulated Credits		Up to 16 Articulated Credits	
From:	Community College of Baltimore County, Catonsville		Penn College of Technology	
Program:	Automotive Collision Repair & Refinishing		Autobody/Collision Repair	
End of Program Test:	NA3SA Exam in Non-Structural Analysis and Damage Repair, Painting and Refinishing, and Structural Analysis and			
Industry:	Damage Repair			
Taken:	National Automotive Student Skills Standards Assessment (NA3SA)			
	At the end of Collision Repair Technology II			

COMPLETER: *Drafting*

CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements			Drafting I (3)	Drafting II (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Advanced Design Applications (1), Technological Design (1), Math Elective beyond Alg./DA – Course 3 (.5-1), Graphic Communications (1), Honors Commercial Art (.5), Honors Calculus (1), AP Calculus AB (1), AP Calculus BC (1), Art II: 2 & 3 D Art (.5-1), Internship (.5-1)			
8 credits possible per year				
Value Added:	3 Articulated Credits		9 Articulated Credits	
From:	Carroll Community College		Community College of Baltimore County, Catonsville	
Program:	Computer Aided Design		Computer Aided Drafting and Design	

COMPLETER: *Electrical Construction*

CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements			Electrical Construction I (3)	Electrical Construction II (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Advanced Design Applications (1), Technological Design (1), Alg./ DA Course 3 (1), Math Elective beyond Alg. II/DA (.5-1), Agricultural Mechanical Technology (1), Business Communications & Keyboarding (1), Public Speaking (.5), Internship (.5-1)			
8 credits possible per year				
Value Added:	Up to 1 year toward Apprenticeship Associated Builders & Contractors		6 Articulated Credits	
From:			Community College of Baltimore County, Catonsville	
Program:			Construction Technology	
End of Program Test:	NCCT Academic Core v2		NCCT Academic Electrical Level I v2	
Industry:	National Center for Construction Education and Research (NCCER)		National Center for Construction Education and Research (NCCER)	
Taken:	At the end of Electrical Construction I		At the end of Electrical Construction II	

COMPLETER: *Engineering Technology - Project Lead the Way Endorsement*

CREDITS: 4

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
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. See chart above.			
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Math Electives: Alg./D.A. Course 3 (1), AP Probability & Statistics (1), AP Calculus AB, AP Calculus BC (1), Trig & Pre-Calculus or Honors Trig. & Pre-Calc (1), Science Electives: AP Physics (1), Science Research I, II (1 ea.) AP Chemistry (1), Advanced Technology Ed. Electives: Advanced Design Applications (1), Technological Design (1), Technological Issues & Impacts (1)			
8 credits possible per year				
Value Added:	16 Transcribed Credits		3 Articulated Credits	
From:	Rochester Institute of Technology		University of Maryland Baltimore	
Program:	Engineering		Engineering	
End of Program Test:	Rochester Institute of Technology Exams in Principles of Engineering, Introduction to Engineering Design, Digital Electronics, & Computer Integrated Manufacturing			
Industry:	Project Lead the Way (PLTW)			
Taken:	At the end of the designated course			

COMPLETER: *Heating, Ventilation, Air Conditioning*

CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements			HVAC I (3)	HVAC II (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Advanced Design Applications (1), Technological Design (1), Math Elective beyond Alg. II/DA (.5-1), Business Communications & Keyboarding (1), Public Speaking (.5), Technological Issues & Impacts (1), Internship (.5-1)			
8 credits possible per year				
Value Added: From: Program:	6 Articulated Credits Community College of Baltimore County, Catonsville Construction Technology	6 Articulated Credits University of Northwestern Ohio Commercial HVAC & Refrigeration	Up to 1 year toward Apprenticeship Associate Builders and Contractors	
End of Program Test: Industry: Taken:	NCCT Academic Core v2 National Center for Construction Education and Research (NCCER) At the end of HVAC I		NCCT Academic HVAC National Center for Construction Education and Research (NCCER) At the end of HVAC II	

COMPLETER: *Heavy Equipment & Truck Technology*

CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements			Heavy Equipment & Truck Technology I (3)	Heavy Equipment & Truck Technology II (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Advanced Design Applications (1), Technological Design (1), Math Elective beyond Alg. II/DA (.5-1), Agricultural Mechanical Technology (1), Business Principles & Practices (1), Business Communications & Keyboarding (1), AP Physics (1), Public Speaking (.5), Technological Impacts & Issues (1), Internship (.5-1)			
8 credits possible per year				
Value Added: From: Program:	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	
End of Program Test: Industry: Taken:	Diesel Engines and Electrical/Electronic Systems National Automotive Student Skills Standards Assessment (NA3SA) At the end of Heavy Equipment & Truck Technology II			

COMPLETER: *Landscaping Design & Construction*

CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Option 1 Completer Program Requirements			Landscaping Design I (3)	Landscaping Design II (3)
Option 2 Completer Program Requirements		Landscaping (.5)	Landscaping Design I & Construction I (3) OR II (3)	Internship (1)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Advanced Design Applications (1), Technological Design (1), Landscaping (.5), Accounting I (1), Business Principles & Practices (1), Horticulture (1), Intro to Agriculture, Food, and Natural Resources (1), Marketing (1), Internship (.5-1)			
8 credits possible per year				
Value Added: From: Program:	3 Articulated Credits Community College of Baltimore County, Dundalk Horticulture, Landscape Design and Installation, Turf and Landscape Maintenance			

COMPLETER: *Manufacturing & Machine Technologies*

CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements			Manufacturing & Machine Technologies I (3)	Manufacturing & Machine Technologies II (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Advanced Design Applications (1), Technological Design (1), Math Elective beyond Alg. II/DA (.5-1), Business Communications & Keyboarding (1), Honors Calculus, AP Calculus AB, Adv. AP Calculus BC (1), Chemistry II (1), Issues in American Society (.5), Public Speaking (.5), Technological Issues & Impacts (1), Internship (.5-1)			
8 credits possible per year				
Value Added: From: Program:	17 Articulated Credits Community College of Baltimore County, Catonsville Computer Automated Manufacturing and Industrial Technology			
End of Program Test: Industry: Taken:	Measurement, Materials, and Safety and Job Planning Bench Work and Layout NIMS (National Institute for Metalworking Skills) During Manufacturing and Machine Technologies I			

COMPLETER: *Masonry*

CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements			Masonry I (3)	Masonry II (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Advanced Design Applications (1), Technological Design (1), Accounting I (1), Agricultural Mechanical Technology (1), Business Principles & Practices (1), Internship (.5-1)			
8 credits possible per year				
Value Added:	Up to 1 year toward Apprenticeship Associated Builders & Contractors		6 Articulated Credits Community College of Baltimore County, Catonsville Construction Technology	
End of Program Test:	NCCT Academic Core v2 National Center for Construction Education and Research (NCCER)		NCCT Academic Masonry Level I National Center for Construction Education and Research (NCCER)	
Industry:	At the end of Masonry I		At the end of Masonry II	
Taken:				

COMPLETER: *Welding Technology*

CREDITS: 6

- Guideline for Course Selections
- Refer to Graduation Requirements in the Program of Studies for specific course requirements in each content area

Grade →	9	10	11	12
Exact scheduling depends on student's plan and school's master schedule.	English 9 (1)	English 10 (1)	English 11 (1)	English 12 (1)
	US Government (1)	US History (1)	World History (1)	
	Conceptual Physics (1)	Chemistry (1)	Biology (1)	
	Algebra I / Data Analysis (1)	Intermediate Algebra / Data Analysis (1)	Geometry (1)	Algebra II / Data Analysis (1)
	PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	Fine Arts (1)	Foundations of Technology (1)		
	World Language (1)	World Language (1)		
Completer Program Requirements			Welding Technology I (3)	Welding Technology II (3)
Career Specific Electives (may be taken any year offered after prerequisites have been satisfied)	Advanced Design Applications (1), Technological Design (1), Math Elective beyond Alg. 11/DA (.5-1), Business Principles & Practices (1), Business Communications & Keyboarding (1), Honors Financial Management Using Software Applications (1), Internship (.5-1)			
8 credits possible per year				
Value Added:	Up to 1 year toward Apprenticeship Associate Builders & Contractors		American Welding Society (AWS) Certification	
End of Program Test:	NCCT Academic Core v2 National Center for Construction Education and Research (NCCER)		NCCT Academic Welding National Center for Construction Education and Research (NCCER)	
Industry:	At the end of Welding I		At the end of Welding II	
Taken:				

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