

# Course, Career, and College Planning Guide

## EARNING A DIPLOMA For MSD Students

2015-2016

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## FOLLOW THESE STEPS TO A DIPLOMA

- 1. Become familiar with the Maryland State Department of Education's and MSD's graduation requirements.*
- 2. Decide which career path interests you and explore the courses and postsecondary options necessary for pursuing that career.*
- 3. Explore the course descriptions to see how they match your interests, your program choice, MSD's graduation requirements and your future plans. Be sure to challenge yourself with tough classes.*
- 4. Make sure you're on track to pass Maryland's High School Assessments (HSAs and PARCCs). You must pass to graduate!*
- 5. Make sure you've met or will meet 75 hours of the Student Service Learning (SSL) requirements.*
- 6. Talk about your choices with your parents or guardians and then track your progress towards your goals.*
- 7. Check out the information section for everything from Attendance and Academic Eligibility to Report Cards and Course Changes.*

Step 1: Become familiar with the Maryland State Department of Education's and MSD's graduation requirements.

# Maryland State Diploma Requirements

For MSD Students

2015-2016

## ***For students entering 9th grade in school year 2015-2016***

### **DIPLOMA REQUIREMENTS FOR MSD STUDENTS**

To receive a Maryland High School Diploma, MSD students must successfully complete all curriculum objectives of required courses in addition to fulfilling the MSDE/MSD requirements listed below.

<b>Subject Area</b>	<b>Required Courses</b>	<b>Credits</b> <small>(One = successful demonstration of outcomes)</small>	<b>Notes</b>
English	English 9, A & B English 10, A & B English 11, A & B English 12 or AP English, A & B	4	All English Classes are year-long. English must be taken yearly.
Mathematics	Algebra I, Honors or A&B Geometry Two Other Courses	4	All Math Classes are year-long with the exception of Honors classes which are one semester. Math must be taken in sequence of increasing difficulty and must be taken yearly.
Science	Biology, Honors or A&B Environmental Science One other Lab Course	3	Biology is a year-long course with the exception of Honors which is one semester. Environmental Science also meets MSDE Environmental Literacy Requirement.
Social Studies	Government, Honors or A & B American Studies II Modern World History	3	Government is a year-long course with the exception of Honors which is one semester.
Health/Physical Education	Health Fitness for Life	1 1	Each course is one quarter.
Fine Arts	One Course	1	Must be chosen from the following: Art, Computer Graphics, Dance, Digital Communication, Digital Photography, Drawing and Painting, Intro to Theatre, Technical Theatre.
Technology Education	Foundations of Technology	1	
World Language	ASL I and ASL II	2	
Career Electives	Three Courses	3	Complete these credits in courses that match your career interest.
<b>TOTAL</b>		<b>23 Credits</b>	

Financial Literacy	Meet the State Requirement (infused into MSD Curriculum)
High School Assessments / PARCC Assessments	Pass 2 HSA exams (Biology, and Government) and 2 PARCC Exams (Alg. 1, English 10. Students will not be required to pass the Algebra and English 10 PARCC assessments in order to receive a Maryland High School diploma until 2016-17) or complete approved alternative assessment. PARCC scores for passing - TBD. Geometry, Algebra II, English 9, English 11 PARCCs must be taken but are not diploma requirements.
Student Service Learning	Meet the state requirement of 75 hours

***For students entering 9th grade in school year  
2014-2015***

**DIPLOMA REQUIREMENTS FOR MSD STUDENTS**

To receive a Maryland High School Diploma, MSD students must successfully complete all curriculum objectives of required courses in addition to fulfilling the MSDE/MSD requirements listed below.

<b>Subject Area</b>	<b>Required Courses</b>	<b>Credits</b> (One=90 mins/1 sem)	<b>Notes</b>
English	English 9, A & B English 10, A & B English 11, A & B English 12 or AP English, A & B	4	All English Classes are year-long
Mathematics	Algebra I, Honors or A&B Geometry Two Other Courses	4	All Math Classes are year-long with the exception of Honors classes which are one semester. Math must be taken in sequence of increasing difficulty.
Science	Biology, Honors or A&B Environmental Science One other Lab Course	3	Biology is a year-long course with the exception of Honors which is one semester. Environmental Science also meets MSDE Environmental Literacy Requirement.
Social Studies	Government, Honors or A & B American Studies II Modern World History	3	Government is a year-long course with the exception of Honors which is one semester.
Health/Physical Education	Health Fitness for Life	.5 .5	Each course is one quarter.
Fine Arts	One Course	1	Must be chosen from the following: Art, Computer Graphics, Dance, Digital Communication, Digital Photography, Drawing and Painting, Intro to Theatre, Technical Theatre.
Technology Education	Foundations of Technology	1	
Advanced Technology OR World Language	Two Advanced Technology Courses OR Two Courses in the same language	2	Advanced Technology Courses must be chosen from the following: Construction, Medical, or Transportation Technology
Career Electives	Three Courses	3	Complete these credits in courses that match your career interest.
<b>TOTAL</b>		<b>22 Credits</b>	

Financial Literacy	Meet the State Requirement (infused into MSD Curriculum)
High School Assessments / PARCC Assessments	Pass 2 HSA exams (Biology, and Government) and 2 PARCC Exams (Alg. 1, English 10. Students will not be required to pass the Algebra and English 10 PARCC assessments in order to receive a Maryland High School diploma until 2016-17) or complete approved alternative assessment. PARCC scores for passing - TBD. Geometry, Algebra II, English 9, English 11 PARCCs must be taken but are not diploma requirements.
Student Service Learning	Meet the state requirement of 75 hours

***For students entering 9th grade in school year  
2013-2014***

**DIPLOMA REQUIREMENTS FOR MSD STUDENTS**

To receive a Maryland High School Diploma, MSD students must successfully complete all curriculum objectives of required courses in addition to fulfilling the state requirements listed below.

<b>Subject Area</b>	<b>Required Courses</b>	<b>Credits*</b> (One=90mins/1 sem)	<b>*Notes</b>
English	English 9, A & B English 10, A & B English 11, A & B English 12 or AP English, A & B	4	All English Classes are year-long.
Mathematics	Algebra I Data Analysis, Honors or A & B Algebra I Core Curriculum, Honors or A&B* Geometry One Other Course	3	All Math Classes are year-long with the exception of Honors classes which are one semester. Math must be taken in sequence of increasing difficulty.
Science	Biology, Honors or A&B Environmental Science One other Lab Course	3	Biology is a year-long course with the exception of Honors which is one semester.
Social Studies	Government, Honors or A & B American Studies II Modern World History	3	Government is a year-long course with the exception of Honors which is one semester.
Health/Physical Education	Health Fitness for Life	.5 .5	Each course is one quarter.
Fine Arts	One Course	1	Must be chosen from the following: Art, Computer Graphics, Dance, Digital Communication, Digital Photography, Drawing and Painting, Intro to Theatre, Technical Theatre
Technology Education	Foundations of Technology	1	
Advanced Technology OR World Language	Two Advanced Technology Courses OR Two Courses in the Same Language	2	Advanced Technology Courses must be chosen from the following: Construction Tech, Medical Tech, or Transportation Tech
Career Electives	Three Courses	3	Complete these credits in courses that match your career interest. See Career Pathways suggestions.
<b>TOTAL</b>	<b>21 Courses</b>	<b>21 Credits</b>	

Financial Literacy	Meet the State Requirement (infused into MSD Curriculum)
High School Assessments / PARCC Assessments	Pass Biology and Government HSA, English 10 PARCC, Algebra I HSA or PARCC (Algebra I PARCC must be taken by those taking Algebra I for the first time in 2014-15 or later; Students will not be required to pass the Algebra and English 10 PARCC assessments in order to receive a Maryland High School diploma until 2016-17;) or meet the minimum combined score or complete approved alternative assessment. Geometry, Algebra II, English 11 PARCCs must be taken but are not diploma requirements.
Student Service Learning	Meet the state requirement of 75 hours

***For students entering 9th grade in school year  
Prior to 2013***

**DIPLOMA REQUIREMENTS FOR MSD STUDENTS**

To receive a Maryland High School Diploma, MSD students must successfully complete all curriculum objectives of required courses in addition to fulfilling the state requirements listed below.

<b>Subject Area</b>	<b>Required Courses</b>	<b>Credits</b> (One = 90 mins /1 sem.)	<b>*Notes</b>
English	English 9, A & B English 10, A & B English 11, A & B English 12 or AP English, A & B	4	All English Classes are year-long.
Mathematics	Algebra I Data Analysis, Honors or A&B* Algebra I Common Core, Honors or A&B OR One other Course <small>(Note: Students who entered HS in 2011 or 2012 who completed Alg. I DA in 12-13 and have more than one math credit remaining to meet grad requirements will be required to take Alg. I Common Core.)</small> Geometry	3	All Math Classes are year-long with the exception of Honors classes which are one semester.
Science	Biology, Honors or A&B* Two other Lab Courses (Environmental Science Highly Recommended)	3	Biology is a year-long course with the exception of Honors which is one semester.
Social Studies	Government American Studies II Modern World History	3	
Health/Physical Education	Health Fitness for Life	.5 .5	Each course is one quarter.
Fine Arts	One Course *	1	Must be chosen from the following: Art, Computer Graphics, Dance, Digital Communication, Digital Photography, Drawing and Painting, Intro to Theatre, Technical Theatre
Technology Education	Foundations of Technology	1	
Advanced Technology OR World Language	Two Advanced Technology* Courses OR Two Courses in the Same Language	2	Advanced Technology Courses must be chosen from the following: Construction Tech, Medical Tech, or Transportation Tech
Career Electives	Three Courses	3	Complete these credits in courses that match your career interest. See Career Pathways suggestions.
<b>TOTAL</b>	<b>22 Courses</b>	<b>21 Credits</b>	

High School Assessments	Pass all 3 HSA exams (English, Algebra I, and Biology) or meet the minimum combined score, with or without Government HSA score calculated into combined score, or complete approved alternative assessment/PARCC.
Student Service Learning	Meet the state requirement of 75 hours



Step 2: Decide which career path interests you and explore the courses and postsecondary options necessary for pursuing that career.

# Career Clusters and You

For MSD Students

2015-2016

## Maryland Career Clusters and Pathways

<p style="text-align: center;"><b><u>ARTS, MEDIA, AND COMMUNICATION</u></b></p> <p><b>A. Fine Arts and Entertainment</b>            1. Visual Arts            2. Performing Arts            3. Multimedia Productions</p> <p><b>B. Mass Communication</b>            1. Print and Broadcast Journalism            2. Public Relations</p> <p><b>C. Graphic Communication</b>            1. Graphic Design            2. Printing</p>	<p style="text-align: center;"><b><u>BUSINESS MANAGEMENT AND FINANCE</u></b></p> <p><b>A. Business Management Services</b>            1. Business Management            2. Human Resources            3. Finance and Accounting            4. Marketing            5. Business Administrative</p> <p><b>B. Financial Services</b>            1. Financial Services</p>	<p style="text-align: center;"><b><u>CONSTRUCTION AND DEVELOPMENT</u></b></p> <p><b>A. Construction and Development</b>            1. Planning            2. Design            3. Construction            4. Maintenance and Operations</p>	<p style="text-align: center;"><b><u>CONSUMER SERVICES, HOSPITALITY, AND TOURISM</u></b></p> <p><b>A. Sales and Service</b>            1. Merchandising/Buying            2. Marketing and Communications            3. Logistics            4. Sales/Customer Service</p> <p><b>B. Hospitality and Tourism</b>            1. Food and Beverage            2. Lodging            3. Attractions and Recreation            4. Convention/Destination Event            5. Travel Management/Coordination</p>	<p style="text-align: center;"><b><u>ENVIRONMENTAL, AGRICULTURAL, AND NATURAL RESOURCE SYSTEMS</u></b></p> <p><b>A. Environmental Agricultural and Natural Resource Systems</b>            1. Ag. Production - Plant Systems            2. Ag. Production - Animal Systems            3. Food and Fiber Processing            4. Natural Resources Management            5. Environmental Services</p>
<p style="text-align: center;"><b><u>HEALTH AND BIOSCIENCES</u></b></p> <p><b>A. Health</b>            1. Therapeutic Services            2. Diagnostic Services            3. Informatics            4. Engineering/Environmental</p> <p><b>B. Biosciences</b>            1. Basic Research            2. Applied Research            3. Manufacturing</p>	<p style="text-align: center;"><b><u>HUMAN RESOURCE SERVICES</u></b></p> <p><b>A. Human Resource Services</b>            1. Law Enforcement and Emergency Services            2. Legal Services            3. Human Services            4. Government and Public Administration            5. Education and Training Services</p>	<p style="text-align: center;"><b><u>INFORMATION TECHNOLOGY</u></b></p> <p><b>A. Information Technology</b>            1. Software Engineering/Development            2. Software Operations            3. Hardware Engineering/Development            4. Hardware Operations            5. Information Systems</p>	<p style="text-align: center;"><b><u>MANUFACTURING, ENGINEERING, AND TECHNOLOGY</u></b></p> <p><b>A. Production</b>            1. Production</p> <p><b>B. Product Development and Sales</b>            1. Product Engineering            2. Manufacturing Sales and Service</p> <p><b>C. Production Support</b>            1. Logistics and Inventory Control            2. Manufacturing Process            3. Quality Assurance            4. Reliability and Maintenance            5. Information Technology            6. Health, Safety, and Environmental</p>	<p style="text-align: center;"><b><u>TRANSPORTATION TECHNOLOGIES</u></b></p> <p><b>A. Transportation Technologies</b>            1. Transportation Operations            2. Logistics Planning and Management            3. Distribution Center Operations            4. Safety, Environmental, and Security Management            5. Transportation Planning, Management, Construction            6. Sales and Customer Service            7. Transportation Equipment</p>

**ARTS, MEDIA, AND COMMUNICATION CAREER CLUSTER**

<b>CORE AREAS</b>							
	<b>Fine Arts and Entertainment</b>			<b>Mass Communication</b>		<b>Graphic Communication</b>	
<b>PATHWAYS</b>	<b>Visual Arts</b>	<b>Performing Arts</b>	<b>Multimedia Production</b>	<b>Print and Broadcast Journalism</b>	<b>Public Relations</b>	<b>Graphic Design</b>	<b>Printing</b>
<b>SAMPLE CAREER OPTIONS with an Associate's Degree or Less</b>	<ul style="list-style-type: none"> <li>• Cartoonist</li> <li>• Fashion Artist</li> <li>• Photographer</li> <li>• Sketch Artist</li> <li>• Craftsperson</li> <li>• Illustrator</li> <li>• Exhibition Installer</li> <li>• Interior Designer</li> </ul>	<ul style="list-style-type: none"> <li>• Technician</li> <li>• Actor</li> <li>• Dancer</li> <li>• Producer</li> <li>• Assistant Producer</li> <li>• Agent</li> <li>• Playwright</li> <li>• Light, Costume, or Sound Designer</li> </ul>	<ul style="list-style-type: none"> <li>• Technicians (i.e., live action segments and motion capture)</li> <li>• Producer (i.e., film, music, radio, recording, television)</li> <li>• Sales Agent</li> <li>• Game Tester</li> <li>• Level Designer</li> </ul>	<ul style="list-style-type: none"> <li>• Software Applications Support Specialist</li> <li>• Electronic Technician</li> <li>• Audio-Visual Equipment Technician</li> <li>• Web Designer</li> </ul>	<ul style="list-style-type: none"> <li>• Advertising Coordinator</li> <li>• Public Relations Assistant</li> <li>• Community Relations Coordinator</li> <li>• Advertising Layout Designer</li> <li>• Media Buyer</li> </ul>	<ul style="list-style-type: none"> <li>• Graphic Designer</li> <li>• Desktop Publisher</li> <li>• Digital Imaging Specialist</li> </ul>	<ul style="list-style-type: none"> <li>• Pre-Media/Pre-Press Imaging Specialist</li> <li>• Bindery and Finishing Technician</li> <li>• Press Operator</li> <li>• Circulation Agent</li> <li>• Digital Imaging Specialist</li> </ul>
<b>SAMPLE CAREER OPTIONS with a Bachelor's Degree</b>	<ul style="list-style-type: none"> <li>• Textile Designer</li> <li>• Conservator</li> <li>• Museum Director</li> <li>• Fine Artist (i.e., painting, sculpture, ceramics)</li> <li>• Animator</li> <li>• Gallery Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Production Manager</li> <li>• Director</li> <li>• Theater Manager</li> <li>• Casting Director</li> <li>• Set Designer</li> <li>• Stage Manager</li> <li>• Dance Choreographer</li> </ul>	<ul style="list-style-type: none"> <li>• Programmer</li> <li>• Game Designer</li> <li>• Production Manager</li> <li>• Artist-3D Modeler</li> <li>• Web Designer</li> <li>• Video Designer</li> <li>• Character Animator</li> <li>• Artist</li> <li>• Screenwriter</li> <li>• Editor</li> </ul>	<ul style="list-style-type: none"> <li>• Journalist</li> <li>• Novelist</li> <li>• Writer</li> <li>• Reporter</li> <li>• Broadcast News Analyst</li> <li>• Radio Announcer</li> <li>• Television Announcer</li> <li>• General Manager</li> <li>• Operations Manager</li> <li>• Advertising Copywriter</li> </ul>	<ul style="list-style-type: none"> <li>• Speech Writer</li> <li>• Publicist</li> <li>• Public Relations Manager</li> <li>• Communications Manager</li> <li>• Advertising Manager</li> <li>• Writer</li> </ul>	<ul style="list-style-type: none"> <li>• General Manager</li> <li>• Operations Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Pre-Media/Pre-Press Manager</li> <li>• General Manager</li> <li>• Operations Manager</li> <li>• Ink Chemist</li> <li>• Paper Scientist</li> <li>• Production Manager</li> </ul>
<b>SAMPLE CAREER OPTIONS with more than a Bachelor's Degree</b>	<ul style="list-style-type: none"> <li>• Art Historian</li> <li>• Museum Curator</li> </ul>	<ul style="list-style-type: none"> <li>• Composer</li> <li>• Conductor</li> <li>• Musician Coach</li> <li>• Artistic Director</li> </ul>	<ul style="list-style-type: none"> <li>• Researcher</li> <li>• Software Engineer-Usability</li> </ul>	<ul style="list-style-type: none"> <li>• Researcher</li> <li>• Historian</li> <li>• Editor</li> </ul>	<ul style="list-style-type: none"> <li>• Public Relations Department Manager</li> <li>• Advertising Firm CEO</li> </ul>	<ul style="list-style-type: none"> <li>• Graphic Design Firm CEO</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Systems Engineer</li> <li>• Equipment Design Engineer</li> </ul>
<b>ACT Interest Inventory &amp; World of Work Equivalent</b>	Basic Interest Area : Arts, Technical L. Crafts and Related T. Applied Arts (Visual) U. Creative and Performing Arts			Basic Interest Area: Administration & Sales, Arts B. Marketing and Sales V. Applied Arts (Written & Spoken)		Basic Interest Area: Art, Technical J. Computer and Information Specialties M. Manufacturing and Processing	
<b>ELECTIVES</b>  <b>Pick three from any of the following:</b>	Advanced Placement Language and Comp Computer Graphics 1,2,3 Digital Communication Technology 1,2 Digital Photography 1,2,3 Drawing and Painting 1,2,3 Introduction to Theatre Publications/Desktop Publishing 1,2			Computer Graphics 1,2,3 Digital Communication Technology 1,2 Digital Photography 1,2,3 Publications/Desktop Publishing 1/2		Computer Graphics 1,2,3 Digital Communication Technology 1,2 Digital Photography 1,2,3 Publications/Desktop Publishing 1/2	

**BUSINESS MANAGEMENT AND FINANCE CAREER CLUSTER**

<b>CORE AREAS</b>						
<b>Business Management Services</b>						
<b>Financial Services</b>						
<b>PATHWAYS</b>	<b>Business Management</b>	<b>Human Resources</b>	<b>Finance and Accounting</b>	<b>Marketing</b>	<b>Business Administrative Services</b>	<b>Financial Services</b>
<b>SAMPLE CAREER OPTIONS with an Associate's Degree or Less</b>	<ul style="list-style-type: none"> <li>• Management Trainee</li> <li>• Executive Assistant</li> <li>• Supervisor</li> <li>• Small Business Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Payroll Clerk</li> <li>• Human Resources Clerk</li> </ul>	<ul style="list-style-type: none"> <li>• Accounting Clerk</li> <li>• Accounts Payable/Receivable Clerk</li> <li>• Bookkeeper</li> <li>• Payroll clerk</li> </ul>	<ul style="list-style-type: none"> <li>• Sales Representative</li> <li>• Customer Service Representative</li> </ul>	<ul style="list-style-type: none"> <li>• Office Manager</li> <li>• Administrative Assistant</li> <li>• Secretary</li> <li>• Data Entry Specialist</li> <li>• Computer Support Specialist</li> </ul>	<ul style="list-style-type: none"> <li>• Securities/ Commodities</li> <li>• Brokerage Clerk</li> <li>• Insurance Agent</li> <li>• Bank Teller</li> <li>• Loan Processor</li> <li>• Insurance Policy Processor</li> <li>• Insurance Claims Agent or Investigator</li> <li>• Claims Adjuster/Examiner</li> </ul>
<b>SAMPLE CAREER OPTIONS with a Bachelor's Degree</b>	<ul style="list-style-type: none"> <li>• Branch Manager</li> <li>• Project Manager</li> <li>• Operations Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Recruiter</li> <li>• Trainer</li> <li>• Compensation, Benefits, and Job Analyst Specialist</li> <li>• Affirmative Action Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>• Accountant</li> <li>• Credit Analyst</li> <li>• Investment Banker</li> <li>• Financial Analyst</li> <li>• Budget Analyst</li> <li>• Auditor</li> <li>• Tax Analyst</li> </ul>	<ul style="list-style-type: none"> <li>• Buyer</li> <li>• Market Research Analyst</li> <li>• Public Relations Specialist</li> <li>• Media Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>• Administrative Services Manager</li> <li>• General Manager</li> <li>• Operations Manager</li> <li>• Executive Assistant</li> </ul>	<ul style="list-style-type: none"> <li>• Personal Financial Advisor</li> <li>• Investment Advisor</li> <li>• Financial Analyst</li> <li>• Loan Officer</li> <li>• Bank Operations Manager</li> <li>• Underwriter</li> <li>• Insurance Appraiser</li> <li>• General /Operations Manager</li> </ul>
<b>SAMPLE CAREER OPTIONS with more than a Bachelor's Degree</b>	<ul style="list-style-type: none"> <li>• Chief Executive Officer</li> </ul>	<ul style="list-style-type: none"> <li>• Human Resources Manager</li> <li>• Employee or Labor Relations Manager</li> <li>• Employee Assistance Plan Mgr</li> <li>• Training &amp; Development Mgr.</li> <li>• Organizational Developer</li> </ul>	<ul style="list-style-type: none"> <li>• Economist</li> <li>• Chief Financial Officer</li> <li>• Treasurer</li> <li>• Comptroller</li> <li>• Finance Director</li> <li>• Certified Public Accountant</li> </ul>	<ul style="list-style-type: none"> <li>• Marketing Manager</li> <li>• Advertising and Promotions Manager</li> </ul>		<ul style="list-style-type: none"> <li>• Economist</li> <li>• Actuary</li> <li>• Statistician</li> <li>• Certified Public Accountant</li> </ul>
<b>ACT Interest Inventory &amp; World of Work Equivalent</b>	Basic Interest Area: Administration and Sales			Basic Interest Area: Business Operations		
	A. Employment Related Services B. Marketing and Sales C. Management			F. Financial Transactions		
<b>ELECTIVES</b>  <b>Pick three from any of the following:</b>	AP Calculus AP English Language and Composition AP Psychology ASL 1,2 Calculus Computer Graphics 1,2,3 Latin 1,2 Psychology Publications/Desktop Publishing 1,2,3					

**CONSTRUCTION AND DEVELOPMENT CAREER CLUSTER**

<b>CORE AREAS</b>				
<b>Construction and Development</b>				
<b>PATHWAYS</b>	<b>Planning</b>	<b>Design</b>	<b>Construction</b>	<b>Maintenance and Operations</b>
<b>SAMPLE CAREER OPTIONS with an Associate's Degree or Less</b>	<ul style="list-style-type: none"> <li>• Construction Manager</li> <li>• Civil Engineering Technician</li> </ul>	<ul style="list-style-type: none"> <li>• Construction Manager</li> <li>• Drafter/CAD Technician</li> </ul>	<ul style="list-style-type: none"> <li>• Construction Manager</li> <li>• Drafter/CAD Technician</li> <li>• Building Code Inspector</li> <li>• Plumber</li> <li>• Carpenter</li> <li>• Electrician</li> </ul>	<ul style="list-style-type: none"> <li>• Real Estate Manager</li> <li>• Facility Manager</li> <li>• Construction Occupations (all trades )</li> <li>• Heating, Ventilation, Air Conditioning, Refrigeration Technician</li> <li>• Engineering Technician</li> </ul>
<b>SAMPLE CAREER OPTIONS with a Bachelor's Degree</b>	<ul style="list-style-type: none"> <li>• Architect</li> <li>• Financial Analyst</li> <li>• Environmental Engineer</li> <li>• Civil Engineer</li> <li>• Land Surveyor</li> </ul>	<ul style="list-style-type: none"> <li>• Engineers (all types)</li> <li>• Architect</li> <li>• Specifications Writer</li> <li>• Environmental Scientist</li> </ul>	<ul style="list-style-type: none"> <li>• Engineers (all types)</li> <li>• Project Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Engineers (all types)</li> <li>• Project Manager</li> <li>• Cost Estimator</li> </ul>
<b>SAMPLE CAREER OPTIONS with more than a Bachelor's Degree</b>	<ul style="list-style-type: none"> <li>• Urban and Regional Planner</li> </ul>			
<b>ACT Interest Inventory &amp; World of Work Equivalent</b>	Basic Interest Area: Technical, Science and Technology  K. Construction and Maintenance N. Mechanical and Electrical Specialties O. Engineering and Technologies			
<b>ELECTIVES</b>  <b>Pick three from any of the following:</b>	Calculus Computer Graphics 1,2,3 Construction Technology Pre-Calculus w/ Trigonometry Publications/Desktop Publishing 1,2 Transportation Technology			

**CONSUMER SERVICES, HOSPITALITY, AND TOURISM CAREER CLUSTER**

<b>CORE AREAS</b>										
<b>PATHWAYS</b>	<b>Sales and Service</b>				<b>Hospitality and Tourism</b>					
	<b>Merchandising /Buying</b>	<b>Marketing and Communication</b>	<b>Logistics</b>	<b>Sales/ Customer Service</b>	<b>Food and Beverage</b>	<b>Lodging</b>	<b>Attractions and Recreation</b>	<b>Convention/ Destination Event</b>	<b>Travel Mgmt./ Coordination</b>	
<b>SAMPLE CAREER OPTIONS with an Associate's Degree or Less</b>	<ul style="list-style-type: none"> <li>Assistant Buyer</li> <li>Buying Clerk</li> <li>Visual Display Designer</li> </ul>	<ul style="list-style-type: none"> <li>Visual Display Designer</li> <li>Advertising Coord.</li> <li>Public Relations Assistant</li> <li>Community Relations Coord.</li> <li>Advertising Layout Designer</li> <li>Media Buyer</li> </ul>	<ul style="list-style-type: none"> <li>Warehouse Mgr. Supervisor/Team Leader</li> <li>Security/Loss Prevention Specialist</li> <li>Inventory/Quality Control Specialist</li> <li>Inventory System Specialist</li> </ul>	<ul style="list-style-type: none"> <li>Department Mgr.</li> <li>Branch Manager</li> <li>Sales Mgr./Agent/ Associate</li> <li>Account Rep.</li> <li>Real Estate Agent</li> <li>Cosmetologist</li> <li>Sales Manager</li> <li>Sales Associate</li> <li>Salon Manager</li> </ul>	<ul style="list-style-type: none"> <li>Restaurant Owner</li> <li>Sales Manager</li> <li>Host/Hostess</li> <li>Chef</li> <li>Kitchen Manager</li> <li>Maitre d'</li> </ul>	<ul style="list-style-type: none"> <li>Housekeeping Dir.</li> <li>Reservations Mgr.</li> <li>Front Office Mgr./</li> <li>PBX/Reservations Agent</li> <li>Front Desk Clerk</li> <li>Concierge</li> <li>Bell Captain</li> <li>Chief Engineer</li> <li>Network Manager</li> </ul>	<ul style="list-style-type: none"> <li>Business Owner</li> <li>Theme Park Mgr.</li> <li>Program Manager/Director</li> <li>Rec. Instructor</li> <li>Interpreter</li> <li>Promotion Mgr.</li> <li>Corporate/Community Development Coord</li> </ul>	<ul style="list-style-type: none"> <li>Group Sales Agent</li> <li>Product Development Specialist</li> <li>Destination Manager</li> <li>Activities Director</li> <li>Tourism Specialist</li> <li>Facility Manager</li> <li>Security Manager</li> </ul>	<ul style="list-style-type: none"> <li>Sales/Marketing Manager</li> <li>Contract Manager</li> <li>Travel Agency Manager</li> <li>Tour Broker</li> <li>Travel Agent</li> </ul>	
<b>SAMPLE CAREER OPTIONS with a Bachelor's Degree</b>	<ul style="list-style-type: none"> <li>General Merchandise Mgr.</li> <li>Divisional Merchandise Mgr.</li> <li>Merchandise Manager</li> <li>Category Manager</li> <li>Buyer</li> </ul>	<ul style="list-style-type: none"> <li>Marketing Director</li> <li>Marketing Manager</li> <li>Marketing Analyst</li> <li>Creative Services/Advertising Manager</li> </ul>	<ul style="list-style-type: none"> <li>Division/District Manager</li> <li>Department Mgr.</li> <li>Traffic Manager</li> <li>Industrial Engineer</li> <li>Transportation Planner/ Analyst</li> <li>Logistics Manager</li> </ul>	<ul style="list-style-type: none"> <li>General/Regional Manager</li> <li>Branch Manager</li> <li>Territory Manager</li> </ul>	<ul style="list-style-type: none"> <li>General Manager</li> <li>Food Service Manager</li> <li>Executive Chef</li> <li>Menu Planner</li> <li>Nutritionist</li> <li>Registered Dietitian</li> </ul>	<ul style="list-style-type: none"> <li>Lodging Owner/Franchisee</li> <li>General Manager</li> <li>Engineering Dir.</li> <li>Sales Director</li> <li>Marketing Director</li> <li>Rooms Director</li> <li>Activities Director</li> </ul>	<ul style="list-style-type: none"> <li>General Manager</li> <li>Property Manager</li> <li>Theme Park Mgr.</li> <li>Park Ranger</li> <li>Park and Recreation Director</li> <li>Cruise Ship Dir.</li> </ul>	<ul style="list-style-type: none"> <li>Market Researcher</li> <li>Events Planner/Manager</li> <li>Account Executive</li> </ul>	<ul style="list-style-type: none"> <li>General Manager</li> </ul>	
<b>SAMPLE CAREER OPTIONS with more than a Bachelor's Degree</b>										
<b>ACT Interest Inventory &amp; World of Work Equivalent</b>	Basic Interest Area: Administration and Sales, Business Operations, Social Service B. Marketing and Sales C. Management E. Communication and Records G. Distribution and Dispatching Z. Personal Services					Basic Interest Area: Administration and Sales, Business Operations B. Marketing and Sales C. Management E. Communication and Records				
<b>ELECTIVES</b>  <b>Pick three from any of the following:</b>	AP Psychology Computer Graphics 1,2,3 Psychology Publications/ Desktop Publishing 1,2					Computer Graphics 1,2 Publishing/Desktop Publishing 1,2				

**ENVIRONMENTAL, AGRICULTURAL, AND NATURAL RESOURCE SYSTEMS CAREER CLUSTER**

<b>CORE AREAS</b>					
<b>Environmental, Agricultural, and Natural Resource Systems</b>					
<b>PATHWAYS</b>	<b>Agricultural Production Plant Systems</b>	<b>Agricultural Production Animal Systems</b>	<b>Food and Fiber Processing</b>	<b>Natural Resources Management</b>	<b>Environmental Services</b>
<b>SAMPLE CAREER OPTIONS with an Associate's Degree or Less</b>	<ul style="list-style-type: none"> <li>• Field Production or Farm Manager</li> <li>• Compliance Manager</li> <li>• Arborist</li> <li>• Landscaper</li> <li>• Florist</li> <li>• Certified Professional Horticulturalist</li> <li>• Nursery/Garden Center Manager</li> <li>• Greenhouse Assistant</li> </ul>	<ul style="list-style-type: none"> <li>• Animal Production Manager</li> <li>• Horse Trainer</li> <li>• Environmental Technician</li> <li>• Veterinary Technician</li> </ul>	<ul style="list-style-type: none"> <li>• Buyer</li> <li>• Inspector</li> <li>• Logistics and Inventory Manager</li> <li>• Meat Grader</li> <li>• Production Supervisor</li> <li>• Laboratory Technician</li> <li>• Quality Assurance Associate</li> </ul>	<ul style="list-style-type: none"> <li>• Natural Resources Police Officer</li> <li>• Forestry Technician</li> <li>• Naturalist</li> <li>• Fishery Technician</li> <li>• Hatchery Technician</li> <li>• Wildlife Technician</li> <li>• Geographic Information Systems Technician</li> </ul>	<ul style="list-style-type: none"> <li>• Hazardous Materials Specialist</li> <li>• Lead/Abatement Technician</li> <li>• Environmental Technician</li> <li>• Emergency Response Technician</li> <li>• Geographic Information Systems Technician</li> </ul>
<b>SAMPLE CAREER OPTIONS with a Bachelor's Degree</b>	<ul style="list-style-type: none"> <li>• Soil Scientist</li> <li>• Geographic Information Systems Specialist</li> <li>• Nutrient Management Specialist</li> <li>• IPM/Pest Control Specialist</li> <li>• Soil Conservation Planner</li> <li>• Landscape Designer</li> <li>• Landscape Architect</li> </ul>	<ul style="list-style-type: none"> <li>• Geographic Information Systems Specialist</li> <li>• Nutritionist</li> <li>• Inspector</li> <li>• Soil Conservation Planner</li> </ul>	<ul style="list-style-type: none"> <li>• New Product Scientist</li> <li>• International Marketing and Packaging Manager</li> <li>• Nutrition Scientist</li> <li>• Food Scientist</li> </ul>	<ul style="list-style-type: none"> <li>• Policy Analyst</li> <li>• Forester</li> <li>• Fisheries Manager</li> <li>• Soil Conservation Planner</li> <li>• Park Manager</li> <li>• Wildlife Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Planner</li> <li>• Geologist</li> <li>• Water Resource Engineer</li> <li>• Environmental Compliance Specialist</li> <li>• Health Physicist</li> <li>• Public Health Engineer</li> <li>• Air Quality Manager</li> </ul>
<b>SAMPLE CAREER OPTIONS with more than a Bachelor's Degree</b>	<ul style="list-style-type: none"> <li>• Plant Scientist</li> <li>• Research Project Manager</li> <li>• Geneticist</li> <li>• Patent Lawyer</li> <li>• Entomologist</li> <li>• Plant Pathologist</li> <li>• Tissue Culture Specialist</li> <li>• Plant Breeder</li> <li>• Extension Educator/Specialist</li> </ul>	<ul style="list-style-type: none"> <li>• Veterinarian</li> <li>• Geneticist</li> <li>• Product Developer</li> <li>• Production Quality Assurance Manager</li> <li>• Research Scientist</li> <li>• State Health Official</li> </ul>	<ul style="list-style-type: none"> <li>• Information Systems Manager</li> <li>• Industrial Engineer</li> <li>• Quality Assurance Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Biologist</li> <li>• Physical Scientist</li> <li>• Fisheries Scientist</li> <li>• Environmental Engineer</li> <li>• Ecological Engineer</li> <li>• Wildlife Biologist</li> <li>• Forest Scientist</li> </ul>	<ul style="list-style-type: none"> <li>• Water Quality Manager</li> <li>• Toxicologist</li> <li>• Land Use/Environmental Engineer</li> <li>• Industrial Hygienist</li> <li>• Environmental Lawyer</li> </ul>
<b>ACT Interest Inventory &amp; World of Work Equivalent</b>	Basic Interest Area: Technical, Science and Technology  I. Agriculture, Forestry and Related P. Natural Science and Technologies R. Medical Diagnosis and Treatment				
<b>ELECTIVES</b>  <b>Pick three from any of the following:</b>	AP Calculus Calculus Environmental Science Forensics Medical Technology				

## HEALTH AND BIOSCIENCES CAREER CLUSTER

CORE AREAS		Health				Biosciences		
PATHWAYS	Therapeutic Services	Diagnostic Services	Informatics	Engineering/ Environmental	Basic Research	Applied Research	Manufacturing	
<b>SAMPLE CAREER OPTIONS with an Associate's Degree or Less</b>	<ul style="list-style-type: none"> <li>• Registered Nurse</li> <li>• Licensed Practical Nurse</li> <li>• Nurse Assistant</li> <li>• Respiratory Therapist</li> <li>• Radiographer</li> <li>• Medical Lab Technician</li> <li>• Pharmacy Technician</li> <li>• Surgical Technologist</li> <li>• Dietetic Technician</li> <li>• Dental Asst/Hygienist</li> <li>• Dental Lab Technician</li> <li>• Massage Therapist</li> <li>• PT/OT Assistant</li> </ul>	<ul style="list-style-type: none"> <li>• Medical Laboratory Technician</li> <li>• Phlebotomist</li> <li>• Radiographer</li> <li>• Cardiovascular Technician</li> <li>• Registered Nurse</li> <li>• EKG Technician</li> <li>• EEG Technician</li> <li>• Radiation/Oncology Therapist</li> </ul>	<ul style="list-style-type: none"> <li>• Medical Records Administrator</li> <li>• Medical Records/Health Information Technician</li> <li>• Administrative Medical Assistant</li> <li>• Medical Office Assistant</li> <li>• Health Information Technician</li> <li>• Billing and coding professional</li> <li>• Health Information Coder</li> </ul>	<ul style="list-style-type: none"> <li>• Biomedical Equipment Technician</li> <li>• Transport Technician</li> <li>• Materials Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Documentation Specialist</li> <li>• Research Assistant</li> <li>• Production Technician</li> <li>• Materials Management Specialist</li> <li>• Quality Control Specialist</li> <li>• Animal Technician</li> <li>• Biotechnology Laboratory Assistant</li> <li>• Bench Technician</li> </ul>	<ul style="list-style-type: none"> <li>• Research Assistant</li> <li>• Quality Control Specialist</li> <li>• Validation Engineer</li> <li>• Process Engineer</li> <li>• Compliance Training Specialist</li> <li>• Production Technician</li> <li>• Bench Technician</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturing Technician</li> <li>• Validation Engineer</li> <li>• Technical Training Specialist</li> <li>• Production Planner</li> <li>• Clean Room Specialist</li> <li>• Media Technician</li> <li>• Bench Technician</li> </ul>	
<b>SAMPLE CAREER OPTIONS with a Bachelor's Degree</b>	<ul style="list-style-type: none"> <li>• Physician Assistant</li> <li>• Dietician/Nutritionist</li> <li>• Occupational Therapist</li> <li>• Medical Technologist</li> <li>• Nurse Supervisor</li> <li>• Chiropractor</li> <li>• Registered Nurse</li> <li>• Nurse Educator</li> </ul>	<ul style="list-style-type: none"> <li>• Occupational Therapist</li> <li>• Medical Technologist</li> </ul>	<ul style="list-style-type: none"> <li>• Health Insurance Manager</li> <li>• Utilization Manager</li> <li>• Corporate Compliance Officer</li> <li>• Health Information Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Safety Manager/ Engineer</li> <li>• Biomedical Engineer</li> </ul>	<ul style="list-style-type: none"> <li>• Regulatory Affairs Associate</li> <li>• Laboratory Technician</li> <li>• Research Technician</li> <li>• Technical Writer</li> <li>• Biochemist</li> <li>• Chemical Engineer</li> </ul>	<ul style="list-style-type: none"> <li>• Regulatory Affairs Associate</li> <li>• Laboratory Technician</li> <li>• Research Technician</li> <li>• Technical Writer</li> <li>• Chemist</li> <li>• Biomedical Engineer</li> </ul>	<ul style="list-style-type: none"> <li>• Operations Manager</li> <li>• Quality Manager/ Tech.</li> <li>• Manufacturing/Chemical Engineer</li> <li>• Analytical Chemist</li> <li>• Microbiologist</li> <li>• Industrial Production Mgr.</li> </ul>	
<b>SAMPLE CAREER OPTIONS with more than a Bachelor's Degree</b>	<ul style="list-style-type: none"> <li>• Physician</li> <li>• Nurse Practitioner</li> <li>• Dentist</li> <li>• Ophthalmologist</li> <li>• Psychologist</li> <li>• Pharmacist</li> <li>• Physical Therapist</li> <li>• Genetic Counselor</li> <li>• Audiologist</li> <li>• Speech and Language</li> <li>• Nurse Director</li> </ul>	<ul style="list-style-type: none"> <li>• Physician</li> <li>• Psychologist</li> <li>• Nurse Practitioner</li> <li>• Physical Therapist</li> <li>• Speech and Language Pathologist</li> </ul>	<ul style="list-style-type: none"> <li>• Medical Librarian</li> </ul>		<ul style="list-style-type: none"> <li>• Regulatory Affairs Officer</li> <li>• Quality Control/ Assurance Director</li> <li>• Bioinformatics Analyst/ Engineer</li> <li>• Bioethicist</li> <li>• Research Scientist</li> <li>• Medical Review Officer</li> </ul>	<ul style="list-style-type: none"> <li>• Medical Review Officer</li> <li>• Clinical Trials Manager</li> <li>• Manufacturing Director</li> <li>• Biostatistician</li> <li>• Medical Director</li> <li>• Quality Control/ Assurance Director</li> </ul>	<ul style="list-style-type: none"> <li>• Medical Director</li> <li>• Senior Methodologist</li> <li>• Senior Scientist</li> <li>• Medical Science Liaison</li> <li>• Regulatory Affairs Officer</li> <li>• Manufacturing Director</li> </ul>	
<b>ACT Interest Inventory &amp; World Work Equivalent</b>	Basic Interest Area: Business Operations, Science and Technology, Social Service E. Communications and Records Q. Medical Technologies R. Medical Diagnosis and Treatment W. Health Care				Basic Interest Area: Science and Technology P. Natural Science and Technology Q. Medical Technologies			
<b>ELECTIVES Pick three from any of the following:</b>	Algebra-Based Physics AP Psychology Psychology Environmental Science Forensics		Medical Technology Pre-Calculus with Trig  Transportation Technology	AP Calculus AP Psychology Calculus Forensics Pre-Calculus  Psychology				



**HUMAN RESOURCE SERVICES CAREER CLUSTER**

<b>CORE AREAS</b>					
<b>Human Resource Services</b>					
<b>PATHWAYS</b>	<b>Law Enforcement and Emergency Services</b>	<b>Legal Services</b>	<b>Human Services</b>	<b>Government and Public Administration</b>	<b>Education and Training Services</b>
<b>SAMPLE CAREER OPTIONS with an Associate's Degree or Less</b>	<ul style="list-style-type: none"> <li>• Fire Marshal</li> <li>• Police Officer</li> <li>• Emergency Medical Technician</li> <li>• Paramedic</li> <li>• Corrections Officer</li> <li>• Crime Technician</li> <li>• Dispatcher/Communications Officer</li> <li>• Fire Inspector / Investigator</li> <li>• Security Officer- Public/Private</li> <li>• Emergency Manager</li> <li>• Accident Investigator</li> </ul>	<ul style="list-style-type: none"> <li>• Mediator</li> <li>• Court Clerk</li> <li>• Court Reporter/Transcriber</li> <li>• Investigator (Private &amp; Government)</li> <li>• Legal Assistant</li> <li>• Paralegal</li> <li>• Legal Secretary</li> </ul>	<ul style="list-style-type: none"> <li>• Childcare Worker</li> <li>• Housing Specialist</li> <li>• Child Support Worker</li> <li>• Human Services Associate</li> <li>• Mental Health Technician</li> </ul>	<ul style="list-style-type: none"> <li>• Policy Researcher</li> <li>• Public Affairs Assistant</li> </ul>	<ul style="list-style-type: none"> <li>• Teacher Assistant</li> <li>• Laboratory Technician</li> <li>• Teacher Paraprofessional</li> </ul>
<b>SAMPLE CAREER OPTIONS with a Bachelor's Degree</b>	<ul style="list-style-type: none"> <li>• Parole Officer</li> <li>• Case Manager</li> <li>• Counselor</li> <li>• Forensic Scientist</li> <li>• Fire Protection Engineer</li> <li>• Police Agent</li> <li>• Air Marshall</li> <li>• Customs Officer</li> </ul>	<ul style="list-style-type: none"> <li>• Assistant Court Commissioner</li> <li>• Law Clerk</li> <li>• Arbitrator</li> </ul>	<ul style="list-style-type: none"> <li>• Program Coordinator</li> <li>• Job Coach</li> <li>• Case Manager</li> <li>• Employment Counselor</li> <li>• Childcare Licensing Specialist</li> <li>• Employee Assistance Counselor</li> <li>• Recreational Therapist</li> </ul>	<ul style="list-style-type: none"> <li>• Program Administrator</li> <li>• Financial Administrator</li> <li>• Auditor</li> <li>• Public Affairs/Information Specialist</li> <li>• Budget Analyst</li> <li>• Policy Analyst</li> <li>• Government Official</li> <li>• Community Organizer/Development</li> <li>• Counterterrorism Specialist</li> <li>• Accountant</li> </ul>	<ul style="list-style-type: none"> <li>• Pre-K-12 Teacher</li> <li>• Librarian/Information Specialist</li> <li>• Career Counselor</li> <li>• Placement Specialist</li> <li>• Admission Counselor</li> <li>• Financial Aid Advisor</li> <li>• Trainer</li> <li>• Organizational Developer</li> <li>• Performance Consultant</li> <li>• Academic Advisor</li> <li>• Postsecondary Instructor</li> <li>• Curriculum Developer</li> </ul>
<b>SAMPLE CAREER OPTIONS with more than a Bachelor's Degree</b>	<ul style="list-style-type: none"> <li>• Federal Special Agent</li> </ul>	<ul style="list-style-type: none"> <li>• Lawyer</li> <li>• Judge</li> <li>• Administrative Law Judge</li> <li>• Court Commissioner</li> <li>• Hearing Examiner</li> <li>• Court Master</li> </ul>	<ul style="list-style-type: none"> <li>• Human Resource Administrator</li> <li>• Psychologist</li> <li>• Speech Therapist</li> <li>• Speech Pathologist</li> <li>• Family Support Counselor</li> <li>• Social Worker</li> <li>• Psychiatrist</li> </ul>	<ul style="list-style-type: none"> <li>• Lawyer</li> <li>• Certified Public Accountant</li> </ul>	<ul style="list-style-type: none"> <li>• College Professor</li> <li>• School or Postsecondary Admin.</li> <li>• Non-Public Pre-K-12 Teacher</li> <li>• Guidance Counselor</li> <li>• Testing and Assessment Specialist</li> <li>• Reading Specialist</li> <li>• School Psychologist</li> <li>• ESL Specialist</li> </ul>
<b>ACT Interest Inventory &amp; World of Work Equivalent</b>	Basic Interest Area: Administration and Sales, Science and Technology, Social Service D. Regulation & Protection                      S. Social Science                      X. Education                      Y. Community Services				
<b>ELECTIVES Pick three from any of the following:</b>	AP Language and Composition                      Publishing/Desktop Publishing 1,2 AP Psychology                      Psychology Computer Graphics 1,2,3 Forensics Environmental Science Medical Technology				

**INFORMATION TECHNOLOGY CAREER CLUSTER**

<b>CORE AREAS</b>					
<b>Information Technology</b>					
<b>PATHWAYS</b>	<b>Software Engineering/ Development</b>	<b>Software Operations</b>	<b>Hardware Engineering/ Development</b>	<b>Hardware Operations</b>	<b>Information Systems</b>
<b>SAMPLE CAREER OPTIONS with an Associate's Degree or Less</b>	<ul style="list-style-type: none"> <li>• Web Designer/Developer</li> <li>• Database Analyst</li> <li>• Database Tester</li> <li>• Data Analyst</li> <li>• Documentation Specialist</li> <li>• Software Applications Specialist</li> </ul>	<ul style="list-style-type: none"> <li>• Software Applications Trainer</li> <li>• Web Designer/Developer</li> <li>• Applications Support Specialist</li> <li>• Applications Support Analyst</li> <li>• Database Support Analyst</li> <li>• PC Support Technician</li> </ul>	<ul style="list-style-type: none"> <li>• PC Support Technician</li> <li>• Network Technician</li> <li>• Network Administrator</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Technician</li> <li>• Network Technician</li> <li>• Cabling Technician</li> <li>• PC Support Technician</li> </ul>	<ul style="list-style-type: none"> <li>• Information System Administrator</li> <li>• Network Analyst</li> </ul>
<b>SAMPLE CAREER OPTIONS with a Bachelor's Degree</b>	<ul style="list-style-type: none"> <li>• Software Architect</li> <li>• Database Developer</li> <li>• Information Systems Architect</li> <li>• Lead Programmer</li> <li>• Applications Developer</li> <li>• Applications Analyst</li> <li>• Project Manager</li> <li>• Web Architect</li> </ul>	<ul style="list-style-type: none"> <li>• Database Administrator</li> <li>• Project Manager</li> <li>• Operations Systems Analyst</li> <li>• Database Administrator</li> <li>• Technical Writer / Editor</li> <li>• Product Support Engineer</li> <li>• Systems Technical Support Specialist</li> <li>• Technical Support Engineer</li> </ul>	<ul style="list-style-type: none"> <li>• Operations Manager</li> <li>• Computer Designer</li> <li>• Project Manager</li> <li>• Circuit Designer</li> </ul>	<ul style="list-style-type: none"> <li>• Network Administrator</li> <li>• Project Manager</li> <li>• Technical Writer/ Editor</li> <li>• Product Support Engineer</li> </ul>	<ul style="list-style-type: none"> <li>• Network Engineer</li> <li>• Network Administrator</li> <li>• Systems Tester</li> <li>• Security Analyst</li> <li>• Quality Assurance Manager</li> <li>• Project Manager</li> <li>• Systems Technical Support Specialist</li> <li>• Technical Support Engineer</li> <li>• Application Integrator</li> </ul>
<b>SAMPLE CAREER OPTIONS with more than a Bachelor's Degree</b>	<ul style="list-style-type: none"> <li>• Business Analyst</li> <li>• Software Architect</li> <li>• Network Analyst</li> <li>• Systems Engineer</li> <li>• Operating System Designer/Engineer</li> <li>• Information Systems Architect</li> </ul>	<ul style="list-style-type: none"> <li>• Project Manager</li> <li>• Operations Manager</li> <li>• Operations Systems Analyst</li> </ul>	<ul style="list-style-type: none"> <li>• Network Engineer</li> <li>• Mechanical Engineer</li> <li>• Computer Engineer</li> </ul>	<ul style="list-style-type: none"> <li>• Operations Manager</li> <li>• Network Engineer</li> <li>• Mechanical Engineer</li> <li>• Computer Engine</li> </ul>	<ul style="list-style-type: none"> <li>• Systems Architect</li> <li>• Systems Analyst</li> <li>• Systems Engineer</li> <li>• Operations System Engineer</li> <li>• Security Analyst</li> <li>• Operations System Program Manager</li> <li>• Chief Security Officer</li> </ul>
<b>ACT Interest Inventory &amp; World of Work Equivalent</b>	Basic Interest Area: Technical, Science and Technology  J. Computer & Information Specialties O. Engineering and Technologies				
<b>ELECTIVES</b>  <b>Pick three from any of the following:</b>	Computer Graphics 1,2,3 Publishing/Desktop Publishing 1,2				

**MANUFACTURING, ENGINEERING, AND TECHNOLOGY CAREER CLUSTER**

<b>CORE AREAS</b>	<b>Production</b>			<b>Product Development &amp; Sales</b>			<b>Production Support</b>		
<b>PATHWAYS</b>	<b>Production</b>	<b>Product Engineering</b>	<b>Manufacturing Sales and Service</b>	<b>Logistics and Inventory Control</b>	<b>Manufacturing Process</b>	<b>Quality Assurance</b>	<b>Reliability and Maintenance</b>	<b>Information Technology</b>	<b>Health, Safety and Environmental</b>
<b>SAMPLE CAREER OPTIONS with an Associate's Degree or Less</b>	<ul style="list-style-type: none"> <li>• Manufacturing Tech</li> <li>• Production Assembler</li> <li>• CAD/CAM Tech</li> <li>• Production Supervisor</li> <li>• Production Team Leader</li> <li>• Production Operator</li> <li>• Materials Management Specialist</li> </ul>	<ul style="list-style-type: none"> <li>• Engineering Technician</li> <li>• CAD Technician</li> </ul>	<ul style="list-style-type: none"> <li>• Sales Agent</li> <li>• Customer Service Representative</li> <li>• Contract Specialist</li> <li>• Sales Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>• Expediter</li> <li>• Inventory Specialist</li> <li>• Material Handler</li> <li>• Contract Specialist</li> <li>• Information Technician</li> </ul>	<ul style="list-style-type: none"> <li>• CAD/CAM Technician</li> <li>• Engineering Technician</li> <li>• Documentation Specialist</li> </ul>	<ul style="list-style-type: none"> <li>• Quality Technician</li> <li>• Inspector</li> <li>• Non-Destructive Tester</li> <li>• Documentation Control Technician</li> <li>• Product/Process Validation Specialist</li> <li>• Metrology/Calibration Specialist</li> </ul>	<ul style="list-style-type: none"> <li>• CAD/CAM Technician</li> <li>• Maintenance Mechanic</li> <li>• Electrician</li> <li>• Maintenance Technician</li> </ul>	<ul style="list-style-type: none"> <li>• User Support Specialist</li> <li>• PC/System Technician</li> <li>• Network Technician</li> <li>• Software Support Specialist</li> </ul>	<ul style="list-style-type: none"> <li>• Laboratory Technician</li> <li>• Health and Safety Technologist</li> </ul>
<b>SAMPLE CAREER OPTIONS with a Bachelor's Degree</b>	<ul style="list-style-type: none"> <li>• Manufacturing Engineer</li> <li>• Product Engineer</li> <li>• Controls Engineer</li> <li>• Systems Engineer</li> <li>• Project Manager</li> <li>• Program Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturing Engineer</li> <li>• Six Sigma Manager</li> <li>• Test Engineer</li> <li>• Materials Engineer</li> <li>• Systems Engineer</li> </ul>	<ul style="list-style-type: none"> <li>• Marketing Manager</li> <li>• Sales Manager</li> <li>• Customer Service Manager</li> <li>• Sales &amp; Application Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Logistics Analyst</li> <li>• Logistics Engineer</li> <li>• Production Planner and Scheduler</li> <li>• Inventory Manager</li> <li>• Purchasing Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Process Engineer</li> <li>• Tooling Engineer</li> <li>• Manufacturing Engineer</li> <li>• Product Change Coordinator</li> <li>• Six Sigma Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Reliability Engineer</li> <li>• Quality Engineer</li> <li>• Mechanical Engineer</li> <li>• Six Sigma Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Facility Engineer</li> <li>• Mechanical Engineer</li> <li>• Electrical Engineer</li> <li>• Six Sigma Manager</li> <li>• Systems Engineer</li> </ul>	<ul style="list-style-type: none"> <li>• Software Engineer</li> <li>• Programmer</li> <li>• Network Admin.</li> <li>• System Engineer</li> <li>• Knowledge Engineer</li> <li>• Product Data Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Safety Engineer</li> <li>• Ergonomic Engineer</li> <li>• Environmental Engineer</li> <li>• Industrial Engineer</li> <li>• Scientist</li> <li>• Remediation Specialist</li> </ul>
<b>SAMPLE CAREER OPTIONS with more than a Bachelor's Degree</b>									
<b>ACT Interest Inventory &amp; World of Work Equivalent</b>	Basic Interest Area: Technical, Science & Technology  M. Manufacturing and Processing O. Engineering and Technologies	Basic Interest Area: Administration & Sales, Technical, Science and Technology  B. Marketing and Sales M. Manufacturing and Processing O. Engineering and Technologies	Basic Interest Area: Technical, Science and Technology  M. Manufacturing and Processing O. Engineering and Technologies						
<b>ELECTIVES Pick three from any of the following:</b>	Computer Graphics 1,2 Construction Technology	Computer Graphics 1,2 Introduction to Chemistry and Physics Physics Pre-Calculus Publications/Desktop Publishing 1,2	Auto Body 1,2 Calculus Construction Technology Environmental Science Forensics	Introduction to Chemistry/Physics Physics Pre-Calculus with Trigonometry					

**TRANSPORTATION TECHNOLOGIES CAREER CLUSTER**

<b>CORE AREAS</b>							
<b>Transportation Technologies</b>							
<b>PATHWAYS</b>	<b>Transportation Operations</b>	<b>Logistics Planning and Management</b>	<b>Distribution Center Operations</b>	<b>Safety, Environmental, and Security Management</b>	<b>Transportation Planning, Management, Construction</b>	<b>Sales and Customer Service</b>	<b>Transportation Equipment</b>
<b>SAMPLE CAREER OPTIONS with an Associate's Degree or Less</b>	<ul style="list-style-type: none"> <li>• Truck Driver</li> <li>• Pilot</li> <li>• Fueler</li> <li>• Air Traffic Controller</li> <li>• Dispatcher</li> <li>• Scheduler</li> <li>• Bus Driver</li> <li>• Ship Captain</li> <li>• Harbor Master</li> <li>• Flight Attendant</li> <li>• Conductor</li> <li>• Train Engineer</li> </ul>	<ul style="list-style-type: none"> <li>• CAD Technician</li> <li>• Route Planner</li> <li>• Traffic Technician</li> </ul>	<ul style="list-style-type: none"> <li>• Forklift Operator</li> <li>• Warehouse Supervisor</li> <li>• Parts Manager</li> <li>• Hazardous Materials Specialist</li> <li>• Database Specialist</li> <li>• Inventory Specialist</li> <li>• Stationary Engineer</li> <li>• Shipping Specialist</li> <li>• Receiving Specialist</li> <li>• Physical Distribution Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Safety or Environmental Inspector</li> <li>• Accident Investigator</li> <li>• Material and Equipment Inspector</li> <li>• Emergency Manager</li> <li>• Emissions Inspector</li> <li>• Security Investigator</li> <li>• Security Officer</li> <li>• Flight Attendant</li> </ul>	<ul style="list-style-type: none"> <li>• Construction Supervisor</li> <li>• Engineering Technician</li> <li>• Drafter/CAD Technician</li> <li>• Surveyor</li> <li>• Security Engineer</li> <li>• Facility Engineer</li> </ul>	<ul style="list-style-type: none"> <li>• Reservation Agent</li> <li>• Customer Service Representative</li> <li>• Salesperson</li> <li>• Service Writer</li> <li>• Leasing Specialist</li> <li>• Title/Registration Administrator</li> </ul>	<ul style="list-style-type: none"> <li>• Parts Manager</li> <li>• Automotive Technician</li> <li>• Collision Repair Technician</li> <li>• Fleet Maintenance Manager</li> <li>• Airframe Mechanic</li> <li>• Power Plant Mechanic</li> <li>• Diesel Mechanic</li> <li>• Railcar Technician</li> <li>• Materials Specialist</li> <li>• Welder</li> </ul>
<b>SAMPLE CAREER OPTIONS with a Bachelor's Degree</b>	<ul style="list-style-type: none"> <li>• Military Flight Operations Manager</li> <li>• Airport Manager</li> <li>• Quality Manager</li> <li>• Flight Service Manager</li> <li>• Business Process Engineer</li> <li>• Process Improvement Manager</li> <li>• Operations Manager</li> <li>• Terminal Manager</li> </ul>	<ul style="list-style-type: none"> <li>• Logistics Analyst</li> <li>• Traffic Engineer</li> <li>• Industrial Engineer</li> <li>• Demographer</li> <li>• Transportation Planner</li> <li>• CAD Engineer</li> <li>• Logistics Engineer</li> </ul>	<ul style="list-style-type: none"> <li>• Industrial Engineer</li> <li>• Distribution Center Manager</li> <li>• Inventory Manager</li> <li>• Quality Control Manager</li> <li>• Import/Export Manager</li> <li>• Logistics Engineer</li> <li>• Industrial Engineering Technician</li> </ul>	<ul style="list-style-type: none"> <li>• Environmental Analyst</li> <li>• Public Administrator</li> <li>• Traffic Safety Officer</li> <li>• Civil Engineer</li> <li>• Occupational Safety Officer</li> <li>• Air Marshal</li> <li>• Customs Officer</li> <li>• Process Improvement Manager</li> <li>• Coast Guard Officer</li> </ul>	<ul style="list-style-type: none"> <li>• Transportation Planner</li> <li>• Traffic Engineer</li> <li>• Civil Engineer</li> <li>• Highway Engineer</li> <li>• Real Property Officer</li> <li>• Environmental Specialist</li> <li>• Systems Engineer</li> <li>• Structural Engineer</li> <li>• Government Agency Administrator</li> <li>• Architect</li> </ul>	<ul style="list-style-type: none"> <li>• General Manager</li> <li>• Market Analyst</li> <li>• Marketing Manager</li> <li>• Sales Manager</li> <li>• Parts Manager</li> <li>• Contract Officer</li> <li>• Procurement Officer</li> <li>• Finance Specialist</li> </ul>	<ul style="list-style-type: none"> <li>• Mechanical Engineer</li> <li>• Aerospace Engineer</li> <li>• Design Engineer</li> <li>• Structural Engineer</li> <li>• Electrical Engineer</li> <li>• Computer Engineer</li> <li>• Process Engineer</li> <li>• Integration Engineer</li> </ul>
<b>SAMPLE CAREER OPTIONS with more than a Bachelor's</b>	<ul style="list-style-type: none"> <li>• Operations Research Systems Analyst</li> </ul>			<ul style="list-style-type: none"> <li>• Environmental Lawyer</li> </ul>	<ul style="list-style-type: none"> <li>• Lawyer</li> </ul>		<ul style="list-style-type: none"> <li>• Systems Engineer</li> <li>• Quality Engineer</li> </ul>
<b>ACT Interest Inventory &amp; World of Work Equivalent</b>	Basic Interest Areas: Business Operations, Technical  G. Distribution & Dispatching H. Transport Operation & Related N. Mechanical & Electrical Specialties						
<b>ELECTIVES Pick three from any of the following:</b>	Auto Body 1,2 Environmental Science Transportation Technology						

Step Three: Explore the Course Descriptions to see how they match your interests, program choice, graduation requirements, and your future plans.

# Course Descriptions

For MSD Students

2015-2016

# CAREER AND TECHNOLOGY EDUCATION

## **AUTO BODY AND COLLISION REPAIR 1, 2**

Credit: 1.0

Prerequisite: *None*

Course Fees: \$40 and a uniform

This program teaches students the skills and technical knowledge needed to repair collision damage on late model vehicles. These skills include the repair and replacement of cosmetic and structural panels, mig welding, unibody repair and straightening, painting, and striping, wheel alignment, estimating and job costing, plastic repair, and others.

## **CONSTRUCTION TECHNOLOGY**

Credit: 1.0

Prerequisite: *None*

Course Fees: \$20

This course is designed to help prepare high school students who plan to go on to community college technical education or university-level engineering programs. This course involves a broad study of how to design and build a home, a planned unit development, community architecture, water distribution systems, and research regarding LEED-NC Certification. Students will have an opportunity to explore and understand how construction technology works via lab and classroom activities.

## **FOUNDATIONS OF TECHNOLOGY**

Credit: 1.0

Prerequisite: *None*

Course Fees: \$20

This course involves a broad study of technology and how it affects every aspect of our lives. Students address crucial issues, current and future technological problems and opportunities associated with technology. In lab and classroom activities students will experience ways to create, use, improve, control, and assess a variety of technologies including: mechanical, structural, electrical, electronic, fluid, optical and bio technologies

## **MEDICAL TECHNOLOGY**

Credit: 1.0

Prerequisite: *Biology*

Course Fees: \$20

This course is designed to help prepare high school students who plan to go on to community college technical education or university-level engineering programs. This course involves a broad study of how to build a model of the circulatory system, perform simulated heart surgery, research patient symptoms, construct a decision making model, build a liquid thermometer, and build/ calibrate an instrument to measure pressure. Students will have an opportunity to explore and understand how medical technology works via lab and classroom activities.

## **MICROSOFT CERTIFICATION TRAINING/APPLICATIONS SOFTWARE 1 – DUAL CREDIT**

Credit: 1.0

Prerequisite: *Permission of Instructor*

Course Fees: None

In this course, students will learn the necessary skills to utilize word processing, spreadsheet, database and multi-media applications. Industry standard software package used in this course is Microsoft Office (Word, Excel, PowerPoint and Access). Students in the dual credit course will be assigned projects from RIT and given examinations; if they pass the course with a C or above grade they will earn college credit in addition to high school credit.

## **PUBLICATIONS/DESKTOP PUBLISHING 1, 2 (also known as Yearbook) – DUAL CREDIT**

Credit: 1.0

Prerequisite: *Permission of Instructor*

Course Fees: \$20

This course is offered as a dual credit course in addition to the high school course description. Students in the dual credit course will be assigned projects from RIT and given examinations; if they pass the course with a C or above grade they will earn college credit in addition to high school credit.

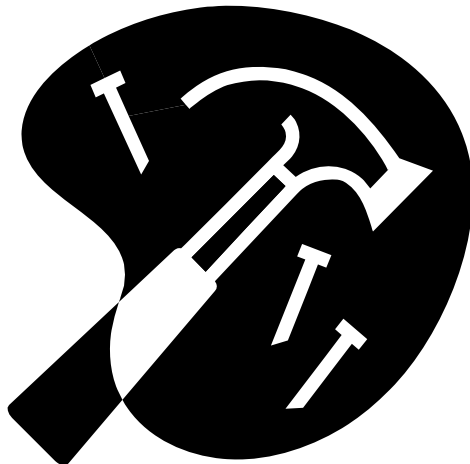
## **TRANSPORTATION TECHNOLOGY**

Credit: 1.0

Prerequisite: *None*

Course Fees: \$20

This course is designed to help prepare high school students who plan to go on to community college technical education or university-level engineering programs. This course involves a broad study researching modes of transportation; design and build a vehicle to transport water; design and build a technology appropriate device; calculate distance via mathematics; research, design, test and analyze a vehicle's suspension system; research braking systems, and design and build a carriage system; and conduct a torque experiment. Students will have an opportunity to explore and understand how transportation technology works via lab and classroom activities.



# ENGLISH

## **ENGLISH 9 (A & B)**

Credit: 1.0

Prerequisite: *None*

Emphasis is on development of critical reading skills and on composition, including the use of descriptive, narrative and persuasive techniques. Students study appropriate organizational patterns and methods of support. Grammar and usage skills are studied through the writing process. In addition, students examine literary works to analyze and evaluate how professional authors use literary and rhetorical devices.

## **ENGLISH 10 (A & B)**

Credit: 1.0

Prerequisite: *None*

In this course, students read a wide range of texts from the American Literary tradition to advance literacy skills. Four thematic units are organized to help students increase fluency in reading critically and in crafting well-written compositions, with an emphasis on production of expository prose texts. Language usage, research and public speaking skills continue to be incorporated in the course lessons.

## **ENGLISH 11 (A & B)**

Credit: 1.0

Prerequisite: *None*

Students begin the course with a study of Ancient Literature and the development of generic ideals (e.g. Greek Epic, Aristotle's ideas about dramas, beginning poetic forms). The study of other early writers extends the ideals established by the Ancients and how authors solidly built literary foundations (e.g. Roman Epic, Cicero's ideas about poetry and argument). Study continues with a focus on Renaissance Literature to allow for the study of how authors found new ways to use form/genre to evoke meaning (e.g. a study of Shakespeare's poetry and/or dramas to see how literary forms expanded from that introduced by medieval authors). In the final unit, students focus on modern world literary genres. Throughout the course, students use multiple sources to inform critical reading skills and on advanced techniques used when writing to persuade. Language usage, research and public speaking skills continue to be incorporated into course lessons

## **ENGLISH 12 (A & B)**

Credit: 1.0

Prerequisite: *None*

Emphasis is on the refinement of writing skills and techniques. Literary works and excerpts are used as models and sources for writing based on student needs and backgrounds. Emphasis is on learning how to develop ideas thoroughly and to organize complex concepts at the essay, paragraph and sentence levels, to make effective tone and other stylistic choices and to use language fluently.

## **ENGLISH LANGUAGE AND COMPOSITION, ADVANCED PLACEMENT**

Credit: 1.0

Prerequisite: *English 10 Honors*

This course prepares students for the Advanced Placement Examination in English Language and Composition through a college-level class. Emphasis is on the analysis of rhetorical devices employed in non-fiction, including essays, articles and speeches. Students continually write timed and un-timed essays on a variety of topics.



## ENGLISH LITERATURE AND COMPOSITION, ADVANCED PLACEMENT

Credit: 1.0

Prerequisite: *English 10 Honors*

This course prepares students for the Advanced Placement Examination in English Literature and Composition through a college-level class. Emphasis is on the refinement of individual writing styles and the critical analysis of literature. Students analyze representative literary works from several genres and periods. This seminar requires intensive class preparation, timed writing, analytical thinking and independent assignments.



# FINE ARTS

## **COMPUTER GRAPHICS 1**

Credit: 1.0

Prerequisite: *None*

Course Fees: \$30

Students will draw, design and print a variety of computer-generated color graphics using a variety of software programs. Students must have successfully completed the Fine Arts requirement; in addition, they must have knowledge of basic computer applications, as well as advanced levels of drawing and painting skills. Course Fees include providing a sketchbook and an art portfolio.

## **COMPUTER GRAPHICS 2, 3**

Credit: 1.0

Prerequisite: *Computer Graphics 1*

Course Fees: \$25

In Computer Graphics 2, students will work on increasingly more individual and independent projects in all phases of computer graphics design and production, resulting in a varied and complex collection of art projects to be maintained in the art portfolio. Preparation for college and the world of work is highlighted.

## **DIGITAL COMMUNICATION TECHNOLOGY 1**

Credit: 1.0

Prerequisite: *Must have basic computer skills*

Course Fees: \$20

Digital Communication Technology will combine digital video production, desktop publishing, web page design and animation skills in the development and creation of digital video productions that are relevant to and representative of the numerous and varied activities that take place within a high school environment. Products may include school based broadcasts, productions, public service announcements, and a video compilation of the year's events.

## **DIGITAL COMMUNICATION TECHNOLOGY 2**

Credit: 1.0

Prerequisite: *Digital Communication Technology 1*

Course Fees: \$20

Students advanced their knowledge and skills in the use of post-production technology and digital video production software. Using concepts and technical skills gained in Digital Communication Technology 1, students create a daily televised show for school announcements, instruct first-level students on the use of equipment and procedures for the daily show, create video footage to be archived in the media library, and create video news packages.

## **DIGITAL PHOTOGRAPHY 1, 2, 3**

Credit: 1.0

Prerequisite: *None*

Course Fees: \$50

This course is an introduction to Digital Photography. Digital Photography basics, equipment, software, digital darkroom, printing, internet and email use will be covered in the class. Students will be able to learn techniques that manipulate and enhance photographic images. They will work with image editing techniques using Photoshop software. They will learn several ways to photograph adults, professional portraits and formal group shots. The class will gain expertise in mastery of camera operation, computer skills and artistic principles through a variety of assignments with imagery, setting moods and creating themes. Students need to provide their own digital camera.

## **DRAWING AND PAINTING 1**

Credit: 1.0

Prerequisite: *None*

Course Fees: \$40 and have or purchase a sketchbook and an art portfolio (in which to collect art works).

Students will design and produce a wide variety of drawing and painting art works to create a process portfolio (which will include a collection of finished art works, self-evaluations, sketches, handouts, notes and critiques).

They will study art history, the elements and principles of design, critiquing and aesthetics (the appreciation of beauty). Student activities include working with pencil, pen and ink, charcoal, pastels, colored pencil, watercolor, tempera, acrylic and mixed media.

## **DRAWING AND PAINTING 2, 3**

Credit: 1.0

Prerequisites for 2: *successful completion of Drawing and Painting 1*

Prerequisites for 3: *successful completion of Drawing and Painting 2*

Course Fees: \$40

In Drawing and Painting 2 and 3, students will work on increasingly more individual and independent projects in all phases of art production, resulting in a varied and complex collection of art projects to be maintained in the art portfolio.

## **INTRODUCTION TO THEATRE**

Credits: 1.0

Prerequisites: *None*

Students enrolling in this course will develop a basic knowledge of theatre through participating in learning activities with a focus on improvisation, theatre games, and performance. They will study the history, comedy, tragedy, and farce, as well as the ways in which the theatre reflects the culture and beliefs of diverse places and historical time periods. They will develop a broad base of knowledge of theatrical texts, and they will practice some of the techniques required for becoming a successful playwright. There will be also an emphasis on developing methods of responding thoughtfully to theatrical performances and productions.

## **TECHNICAL THEATRE**

Credits: 1.0

Prerequisites: *None*

This course is an exploration of the duties of stage technicians and designers and their contribution the total aesthetic effect of a dramatic production. Topics covered will include design research, interpretation, and principles; theatrical designer's plans execution; costume wardrobe, property storage, and scene shop organization; designing, painting, and construction techniques; equipment use and maintenance; principles and application of lighting; the use of special effects; costume and makeup considerations and selection; stage and publicity management; theatre safety; and the function of technical backstage crew in production work. Collaboration and problem-solving are fundamental aspects of the course. Technical theatre will incorporate academic study and hands-on application of knowledge and skills through semester play productions.



# HEALTH AND PHYSICAL EDUCATION

## **FITNESS FOR LIFE**

Credit: 1.0

Prerequisite: *None*

Fitness for Life is designed to provide concepts, principles and values for healthy life-style decision making. Students will apply this information to personal physical fitness and the development of lifelong fitness pursuits. Students will evaluate their physical fitness levels, as well as develop and engage in a personal fitness program. The program will include individual and dual sports, recreational activities, strength training and other fitness and aerobic type activities.

## **HEALTH**

Credit: 1.0

Prerequisite: *None*

The Health Education curriculum is written in compliance with Maryland Public School Law and the Maryland Health Education curricular framework. It includes units in drug education, mental health, nutrition and fitness, consumer education and lifesaving techniques. In addition, units in family life and human sexuality, as well as AIDS education, will be taught. These units will require parental permission. Alternate units are provided for students who do not have parental permission.

## **STRENGTH TRAINING AND FITNESS – 1,2,3**

Credit: 1

Prerequisite: *Fitness for Life*

In this course, students will develop an acceptable level of fitness and an understanding of the components of fitness and an appreciation of the life-long value of fitness through personalized physical education activities. Students will also develop a more positive self-concept appropriate to social and emotional behaviors, self-direction and an appreciation of individual skills. Students will acquire physical skills and knowledge of efficient and creative movement through participation in a sequential program of varied activities and develop an appreciation for the value of this type of movement. Finally, students will become aware of and follow safety practices and procedures.



# MATHEMATICS

## **ALGEBRA I HONORS**

Credit: 1.0

Prerequisite: *None*

The language of higher mathematics is introduced through an intensive study of algebraic notation, symbolism and methods of solving problems. Topics include simplifying expressions, solving linear equations, distributive factoring, working with linear and non-linear functions, inequalities, and systems of linear equations and data analysis.

## **ALGEBRA I (A and B)**

Credit: 1.0

Prerequisite for Algebra I Part A: *Introduction to Algebra, Algebra I Data Analysis or grade of "C" or better in Pre-Algebra in middle school*

Prerequisite for Algebra I Part B: *Algebra I Part A*

This intensive Algebra study has two parts: Algebra I Part A and Algebra I Part B. Students must register for both courses to be taken consecutively during the fall and spring semesters of the school year to complete all of the essential objectives for Algebra I. Students who successfully complete Part A will receive one credit for their study of algebra topics in algebraic notation and symbolism, patterns and functional relationships, simplifying expressions, solving linear equations and distributive factoring with data analysis. Students who successfully complete Part B will receive one credit for non-linear functions, inequalities, systems of linear equations and predictions using a line of best fit. Students who successfully complete Part A and Part B will have met the high school graduation requirement for the study of algebra.

## **ALGEBRA II, Honors or A and B**

Credit: 1.0

Prerequisite: *Geometry. An Honors class requires a grade of "B" or better in Geometry*

Advanced Algebra topics are studied in Algebra II with emphasis on polynomials, quadratics and functions. Topics include properties of real numbers, linear open sentences, functions, polynomials, rational expressions, irrational numbers and radicals, quadratic equations and functions, quadratic relations and systems, exponential functions and logarithms. Completion of this course will prepare students for further study in Pre-Calculus. Strong mastery of Algebra II is required for most college placement tests. In addition, Algebra II Honors will include advanced topics such as circular functions and conditional probability. Algebra II Honors continues the sequence from Geometry (Honors) through Calculus. Statistics and Probability and Algebra III may be taken after Algebra II.

## **BASIC SKILLS MATHEMATICS 9, 10, 11, 12**

Credit: 1.0

Prerequisite: *None*

Basic arithmetic skills and concepts are stressed in these courses. Topics include number concepts, whole numbers, mixed numbers/ fractions, decimals, measurement, using data and problem solving. Students will use these skills to apply to real life situations.

## **CALCULUS (A and B), ADVANCED PLACEMENT**

Credit: 1.0

Prerequisite: *Grade of "B" or better in either Pre-Calculus (Honors) or Pre-Calculus with Trigonometry*

This is an intensive calculus study that has two parts: AP Calculus I (A) and AP Calculus I (B). Students must register for both courses to be taken consecutively during the fall and spring semesters of the school year to complete all of the advanced placement objectives in May. Completion of both parts (A and B) will adequately prepare students for the Advanced Placement Calculus AB Test. Students who successfully complete Part A will receive one credit for the study of calculus topics in the Cartesian plane and functions, limits and continuity and differentiation with curve sketching. Students who successfully complete Part B will receive one credit for their study of calculus topics related to integration and transcendental functions (logarithmic, exponential and trigonometric). A college-level textbook is used.

## **COLLEGE MATH PREP**

Credit: 1.0

Prerequisite: *Algebra II and Geometry*

This course will review Algebra I, Algebra II and Geometry in order to maintain knowledge and skills necessary for taking college entrance examinations. Emphasis will be on application of concepts. Objectives will be taken from the Essential Math Curriculum in order to best review areas of greatest need.

## **GEOMETRY WITH REASONING, Honors or A and B**

Credit: 1.0

Prerequisite: *Algebra 1*

Prerequisite (Honors): *Grade of "B" or better in Algebra 1*

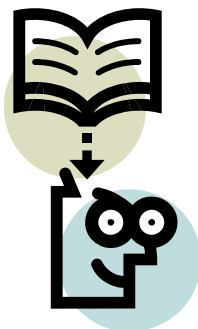
Geometry with Reasoning teaches basic geometric concepts as well as logic and reasoning skills through the use of deductive and inductive reasoning. Topics include deductive/inductive reasoning, lines and angles, basic postulates and theorems, congruent triangles, transformations, inequalities, parallel lines, coordinate geometry, quadrilaterals, area, similarity, right triangles, circles, regular polygons and the circle, and geometric solids. In addition, Geometry with Reasoning (Honors) includes advanced topics such as transformational geometry. It continues the sequence, which begins with Algebra 1 and ends with Calculus in Grade 12.

## **INTRODUCTION TO ALGEBRA**

Credit: 1.0

Prerequisite: *None*

This course is an introduction to algebraic skills for students who need additional preparation prior to taking Algebra I Common Core. Topics include applying proportions, percentages, and fractions; analysis data from geometric figures, making arguments based on data analysis; simplifying algebraic expressions; solving problems involving linear equations and representing relationships using tables and graphs.



## **INTRODUCTION TO ALGEBRA (A and B)**

Credit: 1.0

Prerequisite for Introduction to Algebra, Part A: *None*

Prerequisite for Introduction to Algebra, Part B: *Introduction to Algebra Part A*

This introduction to algebra study has two parts: Introduction to Algebra Part A and Introduction to Algebra Part B. Students must register for both courses to be taken consecutively during the fall and spring semesters of the school year to complete all of the essential objectives for Introduction to Algebra. Students who successfully complete Part A will receive one credit for their study of Introduction to Algebra topics in applying proportions, percentages and fractions; analyzing data from geometric figures, making arguments based on data analysis. Students who successfully complete Part B will receive one credit for simplifying algebraic expressions; solving problems involving linear equations and representing relationships using tables and graphs.

## **PRE-CALCULUS WITH TRIGONOMETRY**

Credit: 1.0

Prerequisite for Pre-Calculus with Trigonometry: *Algebra II and Geometry*

Prerequisite for Pre-Calculus with Trigonometry (Honors): *Grade of "B" or better in Algebra II (Honors) and Geometry (Honors)*

Trigonometry and advanced algebra are studied in Pre-Calculus with Trigonometry. Topics include sequences and series, coordinate geometry of points, lines, conic sections, inequalities and their graphs, functions, trigonometry-circle and triangle, exponents and logarithms, graphs of functions, techniques of equation solving, trigonometric addition formulas, complex numbers, advanced topics in curve sketching and polar graphing. In addition, Pre-Calculus with Trigonometry (Honors) will include and emphasize theory and the derivation of formulas. Pre-Calculus (Honors) continues the sequence from Algebra II (Honors) through Calculus.



# SCIENCE

## **BIOLOGY (Honors)**

Credit: 1.0

Prerequisite: *A grade of "B" or better in Introductory Chemistry/Physics or Physics*

Course Fees: \$10

Students will be introduced to basic concepts in biology. Units of study include: bio chemistry, cell biology, genetics, diversity, ecology and the human body. All state-mandated environmental education goals will be addressed and students will be required to participate in an environment action project. This course includes additional state mandates on drug education and student service learning. Laboratory experiences are an integral part of this curriculum. Students will prepare formal laboratory reports while being presented with varying amounts of both abstract and concrete materials and experiences. *Because state mandates are integrated into the program of study, biology is a required course.* Biology Honors includes an in-depth investigation of the topics of biology emphasizing abstract material. Extensive independent work, self-discipline and commitment to meet rigorous expectations and time lines are required.

## **BIOLOGY (A and B)**

Credit: 1.0 each

Prerequisite: *Introductory Chemistry/Physics or Physics*

Prerequisite for Biology, Part B: *Biology Part A*

Course Fees: \$10

This biology study has two parts: Biology Part A and Biology Part B. Students must register for both courses to be taken consecutively during the fall and spring semesters of the school year to complete all of the essential objectives for Biology. Students who successfully complete Part A will receive credit for their study of Biology topics in bio chemistry, cell biology and genetics. Students who successfully complete Part B will receive credit for diversity, ecology and the human body. Students who successfully complete Part A and Part B will have met the high school graduation requirement for the study of biology.

## **CHEMISTRY 1**

Credit: 1.0

Prerequisite strongly recommended: *Introductory Chemistry/Physics, Algebra I*

Prerequisite for Chemistry, Honors: *Algebra I, Grade of "B" or better in most previous Science Course*

Course Fees: \$10

This course covers fundamental chemistry concepts such as physical and chemical properties of matter, energy, chemical nomenclature, mole relationships, chemical equations, stoichiometry, gas law, atomic theory, periodicity, bonding, solutions and acid-base theory. Students will be expected to use mathematical problem solving, critical thinking and communication skills in student-directed laboratory and classroom experiences. Laboratory experiences are an integral part of this curriculum. As appropriate to the academic level selected, students will prepare formal laboratory reports while being presented with varying amounts of both abstract and concrete concepts and experiences.

Chemistry I Honors includes in-depth investigation of the topics of chemistry emphasizing abstract material. Extensive independent work, self-discipline and commitment to meet rigorous expectations and time lines are required. A "B" average in the student's previous science course(s) is required for entrance into Honors-level science courses.



## **CHEMISTRY 2**

Credit: 1.0

Prerequisite: *Chemistry I, Algebra II (or permission of the science department)*

Course Fees: \$10

This is a second-year lab-oriented course which surveys advanced inorganic and fundamental organic chemistry. Topics may include solutions and solution stoichiometry, acid-base reactions, qualitative analysis, quantitative analysis, metathesis reactions, physical and chemical equilibrium, oxidation-reduction chemistry, kinetics, gas laws and gas law stoichiometry and organic chemistry. Students will be expected to use mathematical problem-solving, critical thinking and communication skills in laboratory and classroom experiences.

## **ENVIRONMENTAL SCIENCE (A and B)**

Credit: 1.0

Prerequisite: *Introductory Chemistry/Physics, Biology*

Prerequisite, Environmental Science, Part B: *Environmental Science, Part A*

Course Fees: \$10

This Environment Science study has two parts: Environmental Science Part A and Environmental Science Part B. Students must register for both courses to be taken consecutively during the fall and spring semesters of the school year to complete all of the essential objectives for Environment Science. Students who successfully complete Part A will receive one credit for their study of Environmental Science topics in ecological principles/ecosystems, water resources and quality, land management, air quality. Students who successfully complete Part B will receive one credit for natural resources and resource management, population dynamics and Chesapeake Bay ecology. Students who successfully complete Part A and Part B will have met the high school graduation requirement for the study of Environmental Science.

## **FORENSIC SCIENCE**

Credit: 1.0

Prerequisite: *Successful completion of Biology and Chemistry I*

Course Fees: \$10

Students will learn the methodology needed to evaluate a crime scene, the proper lab mechanics needed to evaluate evidence, and how to compare between a known and unknown. Students will learn how DNA, fingerprinting, and other forensic tests can be used to solve a crime. The learning strategies used will include lecture, labs, research, activities, and videos.

## **INTRODUCTORY CHEMISTRY/PHYSICS**

Credit: 1.0

Prerequisite: *None*

Course Fees: \$10

Students will be introduced to basic concepts in chemistry and physics. Introductory Chemistry includes units on measurement, atomic theories and models, physical and chemical changes, writing chemical formulas and equations and acids, bases and salts. Introductory Physics includes concepts relevant to mass, force, machines and forms of Laboratory experiences are an integral part of this curriculum. As appropriate to the academic level selected, students will prepare formal laboratory reports while being presented with varying amounts of both abstract and concrete materials and experiences.

## PHYSICS, ALGEBRA BASED

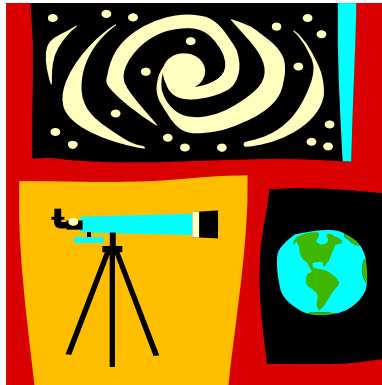
Honors Grade 9

Credit: 1.0

Prerequisite: *Algebra 1*

Course Fees: \$10

Algebra-Based Physics provides ninth grade students achieving at the Honors level the opportunity to study Physics as their first High School science course. The course provides excellent preparation for students entering either Chemistry 1 or Biology. Algebra-Based Physics meets the Maryland State Content Standards for Physics. This course will explore the same concepts covered in the Physics I curriculum. The course will engage students in the study of Kinematics, Dynamics, Conservation Laws, Thermodynamics, Electromagnetism, and Modern Physics. The topics covered in Algebra-based Physics are presented using both conceptual and mathematical analysis appropriate to the students' abilities.



# SOCIAL STUDIES

## **AMERICAN STUDIES II**

Credit: 1.0

Prerequisite: *None*

American Studies II continues the time line from American Studies I from the early post-Civil War industrial era to the present. The social, economic and political issues, which have shaped 20th Century America, are analyzed. Their implication for the future is examined so individuals can make considered choices and take appropriate action as active citizens. Students will develop and test generalizations about relevant social science concepts after acquiring a factual knowledge of our society's common culture. Topics include the United States as a world leader, civil rights and equity, protest and reform, criminal justice, government and the individual, environmental issues, war and peace, the "issues" of the twentieth century and a look at the future.

## **GOVERNMENT, Honors or A and B**

Credit: 1.0

Prerequisite: *None*

The course objectives are centered on the importance of civic education, which is necessary to be an informed, involved citizen who understands and supports democratic principles, institutions and processes. Political science classes are not taught in isolation but rather integrate examples from American history with concepts of government power and purpose and determine the influence on today's world. Topics include the study of the foundations of government, the Constitution, federalism, civil rights and civil liberties, political parties, policy making and some comparison with other nations.

## **MODERN WORLD HISTORY**

Credit: 1.0

Prerequisite: *None*

Students will begin the study of modern history with an examination of the Renaissance and Reformation as a turning point in history. This course is a survey of the progress of people in many areas including science, technology, art, music, government, philosophy, religion and culture. Topics of study include Exploration, Political and Economic Revolutions, Imperialism, Social Movements and Global Conflicts of the 20th Century. While the main focus is on western heritage, non-western nations and cultures are also studied.

## **PSYCHOLOGY**

Credit: 1.0

Prerequisite: *None*

Human development, mental process, behavior and interaction are the areas of study in psychology. The workings of the mind and nervous system, development of personality and emotions and human relations among people are specific areas of study. *Family Life and Human Development Bylaw (Focus Areas II and III) requires parent permission for enrollment in this course in which some topics deal with adolescence and personality.*

## **PSYCHOLOGY, ADVANCED PLACEMENT**

Credit: 1.0

Prerequisite: *None*

Students are introduced to the systematic and scientific study of human and other animal behavior and mental processes. Students are exposed to the psychological facts, principles and phenomena associated with each of the major subfields within psychology. They also learn about the methods psychologists use in their science and practice. The course aims to provide students with learning experiences equivalent to that obtained in a typical, one semester introductory college psychology course. Students will be strongly encouraged to take the AP Psychology examination at the conclusion of the course. *Family Life and Human Development Bylaw (Focuses Areas II and III) requires parental permission for enrollment in this course in which some topics deal with adolescence and personality.*

# TRANSITION EDUCATION

## **COOPERATIVE WORK STUDY (Work to Learn)**

Credit: 1.0

Prerequisite: *Approval from Work To Learn Program Coordinator*

This is a paid work experience and should reflect future employment plans. Most students attend high school in the morning and work off-campus in the afternoon. Students will receive a grade.

## **INDEPENDENT LIVING SKILLS: APARTMENT TRAINING 1, 2**

Credit: 1.0

Prerequisite: *None*

This course prepares students to learn to live and to be independent as much as possible while living in a group home or apartment in their last 1 or 2 years before graduation. Students are given the opportunity to live in Shockley House designed for independent living skills. Students will develop various skills in different areas such as housekeeping, basic cooking, enjoying leisure activity, caring for their own person belongings in the bedroom, doing laundry as well as doing home maintenance around the house needed before moving to an actual group home or apartment after graduation.

## **MENTOR/INTERN PROGRAM**

Credit: 1.0

Prerequisite: *Approval from Work to Learn Program Coordinator*

Students explore career opportunities that they may consider studying in a post-secondary setting. Students are placed for one or two semesters with adult mentors to explore the responsibilities, benefits, advantages, and disadvantages of a career choice. Each mentor is primarily responsible for the daily tasks and/or learning activities of the intern. The Work Experience Coordinator serves as a conduit between the school and internship site. An approved project is completed during the internship and requires the demonstration of both oral and written communication skills. This is an unpaid, off-campus placement. This placement will receive a grade.

## **WORK TO LEARN**

Credits: 1.0

Prerequisites: *Approval from Work To Learn Program Coordinator*

The Work-to-Learn Transition Project offers specialized transition services for high school students who are nearing graduation and preparing for the world of work. Students will have the opportunity to choose to earn credit while working at an on-campus or off-campus job site arranged by the Work-to-Learn Transition Project team. Students will have an opportunity to develop job skills to become marketable upon graduating from Maryland School for the Deaf.

# WORLD LANGUAGES

## **AMERICAN SIGN LANGUAGE I – Linguistics**

Credit: 1.0

Prerequisites: *None*

This course focuses on the linguistic structure of American Sign Language including phonology, morphology, syntax, semantics, and language in use. Structural aspects of both ASL and English will be compared and contrasted, providing students with valuable insight into both languages.

## **AMERICAN SIGN LANGUAGE II – Literature**

Credit: 1.0

Prerequisites: *Successful completion of ASL I Linguistics*

This course exposes students to a sampling of ASL and deaf-themed literature, exploring contributions from mainstream and deaf cultures. Themes across genres are examined as well as authors' use of characterization, literary devices and dialogue. The core videotext exemplars of ASL Literature will be supplemented with assignments for internet viewings and class videos. Students will also create personal responses to literature, citing videotext elements in support of the points of view in addition to creating ASL/deaf-themed literature works.

## **LATIN 1, 2**

Credit: 1.0

Prerequisite: *None*

As students acquire increased knowledge of Latin vocabulary and grammar, they become better able to read with comprehension and accurately translate passages written in Latin. Integrated into instruction at each level are: Roman and Greek culture, civilization and mythology. Latin derivatives and Latin expressions used in English are important components of instruction in Latin 1 and 2.

## **SPANISH 1, 2**

Credit: 1.0

Prerequisite: *None*

As students acquire increased knowledge of Spanish vocabulary and grammar, they become better able to read with comprehension and accurately translate passages written in Spanish. Integrated into instruction are Spanish culture and history.



Step 4: Make sure you're on track to pass Maryland's High School Assessments (HSAs and PARCCs).

# MSDE High School Assessments

For MSD Students

2015-2016

# HIGH SCHOOL ASSESSMENTS

Maryland requires that students must pass the end-of-course High School Graduation Assessments in order to graduate with an MSDE Diploma. Requirements are dependent upon the student's date of entry into High School.

## ***For Students entering 9th grade prior to 2013***

### **Ways to Meet the HSA Passage Requirement:**

- ❖ Earn a passing score on each of the appropriate HSAs.

Biology.....	400
Algebra/Data Analysis.....	412
English.....	396
Government.....	394

Students entering High School prior to 2012-2013 must take the Government HSA upon completing the course but are not required to pass it. The score may, however, be used for a combined score of 1602 if necessary.

- ❖ Earn a combined score of 1208 on the three HSAs of Biology, Algebra and English. For students entering 9th grade for the first time in 2013-2014, students must earn a combined score of 1602 for all four HSAs. This option allows students to offset a lower score on one HSA with a higher score on another HSA.
- ❖ Use the Bridge Plan for Academic Validation, an alternative for students who have passed the HSA-related course but have not passed and HSA after two or more attempts.
- ❖ Earn a state-approved score on certain Advanced Placement (AP) tests as an alternative to taking the HSA in the related subject. This option is only viable if the AP Class is offered at MSD during a particular year.

## **Students with Accommodations**

A student with an identified disability is entitled to receive both instructional and testing accommodations as outlined in his/her Individualized Education Plan (IEP). A student with an IEP who has taken and failed the HSA once may have the opportunity to take the Modified HSA with approval from the school. Contact the Test Coordinator for more information about accommodations for an HSA or Mod-HSA.

## **For Students entering 9<sup>th</sup> grade in 2014 and beyond**

### **Top Things You Need to Know about Testing in High School**

(Information from "Top 5 Things You Need to Know about Testing in High School" found on MarylandPublicSchools.org)

Maryland in 2013 implemented new, higher standards for student learning in all schools across the State. The Maryland College and Career Ready Standards are based on the Common Core State Standards, which have been adopted by Maryland and more than 40 other states, and provide students with the relevant, real world knowledge and skills needed for success beyond high school. In order to measure student mastery of the new standards, Maryland will implement new statewide tests – the Partnership for Assessment of Readiness for College and Careers (PARCC) assessments. Maryland's PARCC assessments will include Algebra I, Algebra II, and English 10, Geometry, English 9, and English 11.

#### **The PARCC tests in English 10 and Algebra I have replaced the High School Assessments (HSAs) in English 10 and Algebra/Data Analysis.**

Students taking English 10 and Algebra this year are taking the PARCC exams in those tested areas. As in the past, all students still must pass the Government and Biology HSAs as a graduation requirement.

#### **# 1 Students taking the PARCC assessments in English 10 and Algebra for the first time in 2014-15 and 2015-16 will not have to pass the test in order to graduate.**

The Maryland State Board of Education in 2014 approved a transition plan for the new assessments, allowing students and teachers to become more knowledgeable in the rigorous standards before requiring student to pass the exams in order to receive a Maryland High School diploma. Students taking the PARCC-aligned assessments in Algebra I and English 10 must still pass the course as part of those graduation requirements.

#### **# 2 Students who have taken the HSA-aligned Algebra and English 10 courses, but have not yet passed one or both of the HSA exams in those subjects, will have the opportunity to retake those HSA exams in 2014-15.**

Because the HSA-aligned tests in Algebra and English 10 will end after the 2014-15 school year, students who have not passed will not need to retake in 2015-16 or complete a Bridge Plan in order to graduate, but they must still pass the course to receive a diploma.

#### **# 3 The final administration of the Modified High School Assessments (Mod-HSAs) will be in the summer of 2015.**

Students who were eligible for a Mod-HSA in Algebra/Data Analysis, Biology, English 10, and/or Government will be allowed to retake the Mod-HSAs during the 2014-15 school year.

#### **# 4 The Bridge Plan for Academic Validation will remain an option for students who take the PARCC assessments in Algebra I and English 10 for the first time in 2016-17 and beyond.**

Passing the PARCC assessments will become a graduation requirement for students who take them for the **first** time in 2016-17. Students will be able to prove mastery of the subjects through the project-based assessments when passing the tests becomes a requirement. New Bridge Plan assessments, aligned to the PARCC tests, are currently in development.

If you have additional questions about testing, ask your teacher, principal, or high school counselor.



Step 5: Make sure you've met or will meet 75 hours of the Student Service Learning (SSL) requirements.

# Student Service Learning

For MSD Students

2015-2016

# Student Service Learning

## Graduation Requirement

Each student must contribute 75 hours of documented SSL to graduate. You may start accruing these hours in the 6th grade. You have an opportunity to contribute to your community, grow as a citizen and receive credit and recognition by participating in SSL activities outside the regular classroom. Follow the guidelines and take advantage of the associated resources to plan, document and receive credit for your activity.

## Meritorious Service

Students who have contributed 150 hours or more to the community will receive a certificate and special award to be worn during graduation.

## Seven Best Practices

- Meet a recognized need in the community
- Achieve curricular objectives through service learning
- Reflect throughout the service learning experience
- Develop student responsibility
- Establish community partnerships
- Plan ahead for service learning
- Equip students with knowledge and skills for service

## Three Phases

- **Preparation** – How did you prepare or receive training for this type of service?
- **Action** – What did you do to prepare for this service?
- **Reflection** – What did you accomplish or learn from this service experience? How did the service experience impact your life and the lives of others?

## Community Service – Sample Activities

- After School Program (ASP)
- Classroom – assist teachers with instructional tasks after school
- Meal preparation for homeless shelter / senior citizens
- Non-profit organizations (Animal shelter, Booster Club events / concession, Soup Kitchen)
- Political organizations
- Senior Citizen events
- Sport manager (maximum of 30 hours per student per sport per season)
- Summer camp

## SSL Form - Step by Step Instruction (download SSL forms from MSD Website)

### Step 1 - Before you begin your community service, you

- Meet with SSL coordinator.
- Discuss your selected SSL activity.
- Ask SSL coordinator for an approved signature on the form.

### Step 2 - As you conduct your community service, you

- Complete the form entitled *Student Service Learning Timesheet*.
- Complete the *Student Service Learning Activity Verification* form, including the Student Information and Student Reflection section.
- Sign your name and date.
- Ask your site supervisor to sign and date on both sides of the form.

### Step 3 – After the completion of the form, you

- Submit it to the SSL coordinator.

## Important Dates

Instructions – complete the SSL form legibly in blue or black ink and submit it to the SSL coordinator by the following deadlines:

- Service completed during the summer - Last Friday in September
- Service completed during 1st semester - First Friday in February
- Service completed during 2nd semester - First Friday in June

Step 6: Talk about your choices with your parents or guardian and track your progress towards your goals.

# Planning and Tracking

For MSD Students

2015-2016

## MSD High School Diploma Requirements Tracking Form

### Courses

Subject Area	Done	Required Courses	Semester/ Year	Grade
English		English 9, A & B		
		English 10, A & B		
		English 11, A & B		
		English 12 or AP English, A & B		
Mathematics		Algebra I Data Analysis, Honors or A & B#		
		Algebra I Core Curriculum, Honors or A&B*		
		Geometry, Honors or A & B		
		One Other Course _____		
		One Other Course _____*		
Science		Biology, Honors or A&B		
		Environmental Science*		
		One other Lab Course		
Social Studies		Government, Honors or A & B		
		American Studies II		
		Modern World History		
Health/Physical Education		Health		
		Fitness for Life		
Fine Arts		One Course _____		
Technology Ed.		Foundations of Technology		
Adv. Tech+ OR World Language		1. _____		
		2. _____		
Career Electives		1. _____		
		2. _____		
		3. _____		

### High School Assessments

Test	Done	Passing	My Score	Date	Notes
Algebra I		(412 HSA)			
Biology		400			
English		(396 HSA)			
Government		394			
Cumulative		1602			

### Student Service Learning

Activity	Done	Hours	Date(s) Performed	Date Paperwork Completed

\*Not applicable to students entering High School prior to 2013/2014. #Not Applicable to those entering High School in 2014 + Not Applicable to those entering HS in 2015 drh 3/15

**MARYLAND SCHOOL FOR THE DEAF CAREER PLANNING SUMMARY**

STUDENT:

Test	EXPLORE/ASPIRE	PLAN/ASPIRE	ACT	ACT	ACT
Date Taken	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
English	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Math	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Reading	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Science	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Composite	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Estimated PLAN/ACT			N/A	N/A	N/A
College Readiness Benchmarks Met	<input type="checkbox"/> English <input type="checkbox"/> Math <input type="checkbox"/> Reading <input type="checkbox"/> Science	<input type="checkbox"/> English <input type="checkbox"/> Math <input type="checkbox"/> Reading <input type="checkbox"/> Science	<input type="checkbox"/> English <input type="checkbox"/> Math <input type="checkbox"/> Reading <input type="checkbox"/> Science <input type="checkbox"/> Writing	<input type="checkbox"/> English <input type="checkbox"/> Math <input type="checkbox"/> Reading <input type="checkbox"/> Science <input type="checkbox"/> Writing	<input type="checkbox"/> English <input type="checkbox"/> Math <input type="checkbox"/> Reading <input type="checkbox"/> Science <input type="checkbox"/> Writing
Educational Plans	<input type="checkbox"/> Voc./Technical <input type="checkbox"/> 2-year College <input type="checkbox"/> 4-year College <input type="checkbox"/> Graduate Study <input type="checkbox"/> Professional <input type="checkbox"/> Other <input type="checkbox"/> Undecided	<input type="checkbox"/> Voc./Technical <input type="checkbox"/> 2-year College <input type="checkbox"/> 4-year College <input type="checkbox"/> Graduate Study <input type="checkbox"/> Professional <input type="checkbox"/> Other <input type="checkbox"/> Undecided	<input type="checkbox"/> Voc./Technical <input type="checkbox"/> 2-year College <input type="checkbox"/> 4-year College <input type="checkbox"/> Graduate Study <input type="checkbox"/> Professional <input type="checkbox"/> Other <input type="checkbox"/> Undecided	<input type="checkbox"/> Voc./Technical <input type="checkbox"/> 2-year College <input type="checkbox"/> 4-year College <input type="checkbox"/> Graduate Study <input type="checkbox"/> Professional <input type="checkbox"/> Other <input type="checkbox"/> Undecided	<input type="checkbox"/> Voc./Technical <input type="checkbox"/> 2-year College <input type="checkbox"/> 4-year College <input type="checkbox"/> Graduate Study <input type="checkbox"/> Professional <input type="checkbox"/> Other <input type="checkbox"/> Undecided
Interest Areas	<input type="checkbox"/> Realistic/Technical <input type="checkbox"/> Investigative/Sci &Tech <input type="checkbox"/> Artistic/ Arts <input type="checkbox"/> Social/ Social Service <input type="checkbox"/> Enterprising/Admin,Sales <input type="checkbox"/> Conventional/ Business	<input type="checkbox"/> Realistic/Technical <input type="checkbox"/> Investigative/Sci &Tech <input type="checkbox"/> Artistic/ Arts <input type="checkbox"/> Social/ Social Service <input type="checkbox"/> Enterprising/Admin,Sales <input type="checkbox"/> Conventional/ Business	<input type="checkbox"/> Realistic/Technical <input type="checkbox"/> Investigative/Sci &Tech <input type="checkbox"/> Artistic/ Arts <input type="checkbox"/> Social/ Social Service <input type="checkbox"/> Enterprising/Admin,Sales <input type="checkbox"/> Conventional/ Business	<input type="checkbox"/> Realistic/Technical <input type="checkbox"/> Investigative/Sci &Tech <input type="checkbox"/> Artistic/ Arts <input type="checkbox"/> Social/ Social Service <input type="checkbox"/> Enterprising/Admin,Sales <input type="checkbox"/> Conventional/ Business	<input type="checkbox"/> Realistic/Technical <input type="checkbox"/> Investigative/Sci &Tech <input type="checkbox"/> Artistic/ Arts <input type="checkbox"/> Social/ Social Service <input type="checkbox"/> Enterprising/Admin,Sales <input type="checkbox"/> Conventional/ Business
Needs help with	<input type="checkbox"/> Career Plans <input type="checkbox"/> Writing <input type="checkbox"/> Reading <input type="checkbox"/> Study Skills <input type="checkbox"/> Mathematics <input type="checkbox"/> Computer Skills <input type="checkbox"/> Public Speaking	<input type="checkbox"/> Career Plans <input type="checkbox"/> Writing <input type="checkbox"/> Reading <input type="checkbox"/> Study Skills <input type="checkbox"/> Mathematics <input type="checkbox"/> Computer Skills <input type="checkbox"/> Public Speaking	<input type="checkbox"/> Career Plans <input type="checkbox"/> Writing <input type="checkbox"/> Reading <input type="checkbox"/> Study Skills <input type="checkbox"/> Mathematics <input type="checkbox"/> Computer Skills <input type="checkbox"/> Public Speaking	<input type="checkbox"/> Career Plans <input type="checkbox"/> Writing <input type="checkbox"/> Reading <input type="checkbox"/> Study Skills <input type="checkbox"/> Mathematics <input type="checkbox"/> Computer Skills <input type="checkbox"/> Public Speaking	<input type="checkbox"/> Career Plans <input type="checkbox"/> Writing <input type="checkbox"/> Reading <input type="checkbox"/> Study Skills <input type="checkbox"/> Mathematics <input type="checkbox"/> Computer Skills <input type="checkbox"/> Public Speaking
Accommodations	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Career/Major Preferred	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
World of Work Regions	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

	Freshman		Sophomore		Junior		Senior	
Cum. G.P.A.								
Reading Level								
Math Level								
ITP Career								
ITP Ed. Goal								
Algebra Test								
HSA Biology								
English Test								
HSA Govt								
Career Cluster								
WTL/Intern								

**ACT WORLD OF WORK MAP:**

<p><b>ADMINISTRATION AND SALES</b>  <b>A. Employment-Related Services</b>                      Employee Benefits Manager; Human Resources Manager; Training/Education Manager  <b>B. Marketing &amp; Sales</b>                      Advertising Manager; Buyer; Insurance Agent; Real Estate Agent; Sales/Marketing Manager; Travel Agent  <b>C. Management</b>                      Financial Manager; General Manager; Hotel/Motel Manager; Property/Real Estate Manager  <b>D. Regulation &amp; Protection</b>                      Customs Inspector; Detective (Police); FBI/CIA Agent; Food &amp; Drug Inspector; Park Ranger; Police Officer</p>	<p><b>BUSINESS OPERATIONS</b>  <b>E. Communications &amp; Records</b>                      Abstractor; Court Reporter; Hotel Clerk; Medical Record Technician; Title Examiner/Searcher  <b>F. Financial Transactions</b>                      Accountant/Auditor; Bank Teller; Budget/Credit Analyst; Insurance Underwriter; Real Estate Appraiser; Tax Accountant  <b>G. Distribution &amp; Dispatching</b>                      Air Traffic Controller; Flight Dispatcher; Mail Carrier; Shipping/Receiving Clerk; Warehouse Supervisor</p>	<p><b>TECHNICAL</b>  <b>H. Transport Operation &amp; Related</b>                      Aircraft Pilot; Astronaut; Bus Driver;  <b>I. Agriculture, Forestry &amp; Related</b>                      Aqua culturist; Nursery/Greenhouse Manager; Tree Surgeon (Arborist)  <b>J. Computer &amp; Information Specialties</b>                      Archivist/Curator; Computer Programmer; Web Site Developer  <b>K. Construction &amp; Maintenance</b>                      Carpenter; Electrician; Firefighter; Plumber; Security Installer  <b>L. Crafts &amp; Related</b>                      Cabinetmaker; Chef/Cook; Jeweler; Tailor/Dressmaker;  <b>M. Manufacturing &amp; Processing</b>                      Printing Press Operator; Sheet Metal Worker; Welder  <b>N. Mechanical &amp; Electrical Specialties</b>                      Locksmith; Millwright; Technicians in various</p>	<p><b>SCIENCE AND TECHNOLOGY</b>  <b>O. Engineering &amp; Technologies</b>                      Architect; Engineers &amp; Technicians; Surveyor; Technical Illustrator  <b>P. Natural Science &amp; Technologies</b>                      Biologist; Food Technologist; Geologist; Meteorologist; Physicist  <b>Q. Medical Technologies (Also see W.)</b>                      Dietician/Nutritionist; Optician; Pharmacist; Radiologic Technician; Technologists in various fields  <b>R. Medical Diagnosis &amp; Treatment (Also see W.)</b>                      Anesthesiologist; Dentist; Nurse Practitioner; Physical Therapist; Physician; Veterinarian  <b>S. Social Science</b>                      Anthropologist; Criminologist; Political Scientist; Experimental Psychologist; Sociologist</p>
<p><b>ARTS</b>  <b>T. Applied Arts (Visual)</b>                      Animator; Fashion Designer; Graphic Artist (Software); Photographer; Set Designer  <b>U. Creative &amp; Performing Arts</b>                      Actor; Composer (Music); Dancer/Choreographer; Fashion Model; Musician; Writer/Author  <b>V. Applied Arts (Written &amp; Spoken)</b>                      Advertising Copywriter; Columnist; Editor; Interpreter; Librarian; Reporter/Journalist</p>	<p><b>SOCIAL SERVICES</b>  <b>W. Health Care (Also see Q. and R.)</b>                      Athletic Trainer; Dental Hygienist; Health Services Administrator; Psychiatric Technician; Recreational Therapist  <b>X. Education</b>                      Athletic Coach; College/University Faculty; Educational Administrator; Teachers in various specialties.  <b>Y. Community Services</b>                      Counselors in various specialties ; Director; Lawyer; Social Worker  <b>Z. Personal Services</b>                      Barber; Flight Attendant; Gaming Occupations Worker; Hairstylist/Cosmetologist; Travel Guide</p>		



Step 7: Check out the information section for additional information.

# Information

For MSD Students

2015-2016



## ACADEMIC RIGOR POLICY

MSD students are required to take English and Math annually. At least one additional core course must be taken per semester to be selected from the following categories: English, Math, Science, Social Studies, World Language, PARCC Prep Class, Internship/Work Experience, or Dual Credit College Class.

## ADDING/DROPPING COURSES

High school students have 5 days from the start of the semester to request to add and/or drop a course with no penalty. Students considering dropping a course after 5 days in school need to be aware that credit may not be granted for the course dropped or for the new course entered. This does not apply to students wishing to change course levels. Information on how to drop/add a course will be announced via bulletins, emails, and postings before/at the start of the semester.

Class change requests will be considered if at least one of the following circumstances applies:

- Course needed as a graduation requirement
- Course needed as a college entrance requirement
- Course pre-requisites were not met
- Credit recovery from a previous school year (failed a course/want to remove low grade)
- Inappropriate academic placement
- Scheduling Error (wrong class assigned/no class assigned/duplicate class assigned)
- Balancing class sizes (Administrator may change a student's schedule to balance class size for instructional or safety reasons)
- Health reasons (must be certified in writing by physician)
- Counseling or corrective measures have failed to create a positive situation for the student and the rest of the class.

Changes will NOT be approved on the basis of having changed your mind or for the request of a particular teacher or class time.

## ADVANCED PLACEMENT COURSES

Advanced Placement (AP) courses enable students to pursue college-level studies while still in high school, and the courses follow a national curriculum provided by The College Board, the publishers of the SAT college entrance exam.

AP courses reflect a student's willingness to follow the demands and rigor of college level studies. Students are required to do considerable outside reading, additional assignments, and to demonstrate the analytical skills and writing abilities expected of first-year students in a strong college program. These courses help students develop the intellectual skills and self-discipline they need to do well in college. Furthermore, AP exams are an integral part of the course, since the exam grade allows students to earn college credit. Students who are highly motivated and who meet course prerequisites are recommended to take AP courses and the examinations. Each May, AP exams are offered to students as they complete their coursework. There is a fee for each of the AP exams. Students who take an AP course will earn points towards a weighted Grade Point Average.

### *Who Should Take AP Classes?*

Students must display three characteristics:

1. Interest in intense exploration of the course material
2. Appropriate study skills
3. Strong personal commitment to accomplishing objectives and requirements of course

*AP Courses Offered: (Note: not all courses are offered annually)*

- Calculus, AB
- English Literature & Language
- English Language & Composition
- European History
- Psychology

For more information on the Advanced Placement Program, please visit [www.CollegeBoard.com](http://www.CollegeBoard.com).

## **ATTENDANCE**

Once a student is on campus, he/she becomes the full responsibility of the school and will follow all rules regarding class attendance. Classes begin at 8:00 a.m. and end at 2:50 p.m.

A student scheduled for a full day is counted present for the full day if the student is in attendance 4 hours or more. A student is counted present for a half-a-day if in attendance for at least 2 hours of the school day but less than 4 hours. Students must be present for at least half of the time scheduled in order to be counted present for the full day. Students who arrive to school 2 hours after the start of classes on any school day will not be allowed to participate in after school activities, including athletics and extracurricular events. Any extenuating circumstances will be left to the discretion of the Principal.

Students who arrive tardy must sign in at the Principal's Office (Ely Building). Students who miss school on any specific day are not allowed to participate in extracurricular activities, including athletic practices or competition that day.

## **ADMINISTRATIVE ATTENDANCE WAIVER**

MSD expects maximum school attendance on the part of all students. It also recognized that students must be given the opportunity to assume greater responsibility for their learning. There may be times when an administrative attendance waiver that shortens the normal school day is necessary for some students for whom the typical day would create personal problems (family, social or medical) or to explore educational or career opportunities outside the high school setting. The administrative attendance waiver should not be confused with the work-study program. Students on approved administrative waiver are not under any direct supervision of school personnel for the released time period. The administrative attendance waiver must be approved by the high school assistant principal. An administrative attendance waiver application and contract must be completed, signed, and dated by all participants. Waiver applications are available in the guidance office and must be submitted prior to the start of the semester unless personal circumstances arise.

## **CLASS RANK**

Dividing the total number of quality points for a student by the total number of credit units will result in obtaining the grade point average (GPA). GPA shall be assembled and divided into 10 equal groups. A student GPA that falls within the highest group is said to be in the first 10 percent of the class. The school shall furnish its latest class ranking and GPA upon request to prospective employers and colleges with the permission of the student. Grade rank and specific class rank shall be reported unless students request otherwise.

## **COLLEGE ENTRANCE EXAMINATIONS**

MSD offers several opportunities for students to take the optional ACT examination. Successful performance on this national exam is accepted for college admission at all colleges in the United States. Another widely accepted Entrance Examination is the SAT. MSD does not offer the SAT but information on how to register and get accommodations for this test are available in the Guidance Office. The PLAN (pre-ACT) and the ACT are offered on campus. See the High School Guidance Counselor for more information

## **DUAL CREDIT COURSES**

Students will have an opportunity to participate in college level classes. Options for taking college level classes are:

*\*At MSD:* MSD's faculty will teach the course but all coursework and examinations will be graded by our faculty and the university that offers the course.

*\*On-line:* MSDE approved on-line courses can be taken but must be processed through the MSD Guidance Counselor for course/schedule approval.

*\*At a local college:* With prior approval from the High School Assistant Principal, a student may take a course at a local college and earn dual credit. The student is required to complete all admissions/registration requirements of the college and must provide his/her own transportation to the college. The college transcript must be submitted to MSD prior to credit being granted for the course.

If students pass the assignments and examinations at a certain grade or higher, they will earn college credit in addition to high school credit. The courses also meet MSDE’s graduation requirements. College credit can be applied to other colleges that accept the credit. Students who take a dual credit course will earn weighted points for their GPA.

Who Should Take the Dual Credit Courses? Students must display three characteristics:

1. Interest in intense exploration of the course material
2. Appropriate study skills
3. Strong personal commitment to accomplishing objectives and requirements of course

*Frederick Community College:*

For information on applying to and registering to take courses at FCC through their Open Campus program, go to [www.frederick.edu](http://www.frederick.edu).

*Hood College:*

For information on applying to and registering to take courses through the Hood Start program, go to [www.hood.edu](http://www.hood.edu).

*National Technical Institute of the Deaf (NTID) and Rochester Institute of Technology (RIT):*

Courses offered at MSD are:

Publications/Desktop Publishing

Applications Software I /MS Certification Training

Web Development I

**EARLY GRADUATION/ALTERNATIVES TO FOUR-YEAR HIGH SCHOOL ENROLLMENT**

A student may receive a Maryland high School diploma after 11th grade through an approved waiver of 12th grade enrollment, providing she or he has met all graduation credit, competency, and student service learning requirements. The IEP Team, Principal and the High School Assistant Principal must determine that this is in the best interest of the student. A student wishing to pursue this option should contact the High School Guidance Counselor to apply for early graduation. A student who graduates early will receive his or her high school diploma at graduation at the completion of 11th grade.

**ELIGIBILITY FOR EXTRACURRICULAR ACTIVITIES**

Extracurricular activities are activities that are outside the regular course of study of the day but under the supervision of the school such as drama or athletics. These are an integral part of MSD’s comprehensive educational program. Participation in such activities is considered a privilege, which is contingent upon satisfactory performance in academics.

To participate in extracurricular activities, a high school or a middle school student must have no “F” grades. End-of-quarter grades, semester grades and interim report grades determine eligibility; ineligibility is determined by quarterly report cards and becomes effective when report cards are mailed. Eligibility for fall extracurricular activities is based on 4th quarter grades or 2nd semester grades from the previous year.

A student’s eligibility to participate in extracurricular activities will be based upon end-of-quarter grades or final semester grades as explained in the chart below.

<b>ELIGIBILITY</b>	<b>FOR SEMESTER CLASSES</b>	<b>FOR YEAR LONG CLASSES</b>
Eligibility for 1st quarter	Based on final 2nd semester grades from previous year	Based on 4th quarter grades from previous year
Eligibility for 2nd quarter	Based on 1st quarter grades	Based on 1st quarter grades
Eligibility for 3rd quarter	Based on final 1st semester grades	Based on 2nd quarter grades
Eligibility for 4th quarter	Based on 3rd quarter grades	Based on 3rd quarter grades

A student who is eligible to participate, but has a GPA under 2.0 will be placed on Academic Intervention status. While on Academic Intervention status, the student must do the following:

- Meet once a week with an academic coach
- Attend after-school homework lab daily Monday - Thursday
- Complete the weekly Progress Report

The coach or sponsor will review the Progress Report. If the student does not comply with the Academic Intervention requirements, participation in extracurricular activities will be suspended until the student is in compliance again. A student will be removed from the Academic Intervention standing when he/she has a 2.0 GPA at the interim marking period or at the end of a quarter.

A student who believes an error has occurred in awarding a grade may appeal in writing and submit it to the Assistant Principal within 5 days of the issuing of the quarterly report card.

**GRADE POINT AVERAGE (GPA) AND RANKING**

Colleges and scholarship services use student GPAs to determine eligibility for admission or award. GPAs are determined by adding all quality points, per the scale below, for all courses taken and dividing by the number of credits attempted.

- **Traditional** – Students are ranked annually using their traditional GPA; all course work is included with unweighted/traditional points used to calculate the GPA.
- **Weighted** – Students who have taken honors, advanced placement, or dual credit courses receive weighted quality points to determine a weighted GPA which can be reported to colleges or scholarship agencies.

GRADE	TRADITIONAL	WEIGHTED
A - (90%-100%)	4 points	5.00 points
B - (80%-89%)	3 points	3.75 points
C - (70%-79%)	2 points	2.50 points
D - (60%-69%)	1 point	1.25 points
F - (0%-59%)	0 points	0.00 points

**GRADES ONLINE**

MSD uses an online software program called Power School to give parents and students access to grades from any Internet-connected computer. After grading tests and assignments, teachers enter the grades in their electronic grade books. Missing assignments are also noted. Power School organizes the data for convenient online viewing any time, day or night. Contact the Principal’s office to obtain your student’s identification number and PIN.

**GRADUATING FROM HIGH SCHOOL**

Students will either earn a Maryland State Department of Education Diploma or a Certificate of Program Completion.

1. *Maryland High School Diploma*: For high school students who complete state and local graduation credit, assessments, and program requirements. See Step One in this guide for detailed information.
2. *Certificate of Program Completion*: For high school students with an Individualized Education Program (IEP) who complete the requirements of their IEP and who’s IEPs indicate their eligibility for the Certificate. Students working toward the High School Certificate of Program Completion will be required to take only those assessments outlined in their IEPs. These assessments may include the Alt-MSA and/or the High School Assessments.

**HIGH SCHOOL CREDIT FOR COURSES TAKEN IN MIDDLE SCHOOL**

The Maryland State Board of Education allows local boards of education to grant graduation credit to middle school students who take high school courses in middle school. These courses must have the same expectations, curriculum and final exams as the equivalent courses taught in high school.

The following middle school courses have been identified for high school credit:

- Algebra I
- Geometry

Students who pass these courses, with a grade of "C" or above, and the final exam will automatically be granted high school credit. A student whose middle school course achievement is low may wish to repeat the course in high school. This is a decision that the student and parent, along with the teacher and school counselor, should make when selecting courses for the school year.

## **HONOR ROLL**

The honor roll, a sign of excellence, recognizes students who have demonstrated outstanding achievements. To be included on the academic honor roll, students must:

- have a B average
- not have earned an Incomplete or below a C
- have earned no more than one C
- balance any C by an A, course for course
- be enrolled for a minimum of 6 credits in all high school grades except 12th.

All courses will be weighted equally. The principal will set up a procedure, assign staff to establish the honor roll, and validate and publish it. The honor roll has two categories:

- First Honors/Gold: 3.5 - 4.0
- Second Honors/Silver: 3.0 - 3.49

## **NATIONAL HONOR SOCIETY**

MSD has a chapter of the National Honor Society; to become a member, a student must have a minimum 3.0 cumulative grade point average and strong scholarship, service, leadership and character, as rated by school faculty. Additional information is available from the National Honor Society Coordinator.

## **NCAA ELIGIBILITY**

Students planning to enroll in college as a freshman and who wish to participate in Division I or Division II athletics must be certified by the NCAA Initial-Eligibility Clearinghouse. The Clearinghouse was established by the NCAA member institutions in January 1993. The Clearinghouse ensures consistent application of NCAA initial eligibility requirements for all prospective student athletes at all member institutions. For more information on eligibility requirements, visit [www.eligibilitycenter.org](http://www.eligibilitycenter.org).

## **REPEATING A COURSE**

A student may repeat any course to improve a grade and gain greater mastery of the subject matter. The highest grade received in the course will be entered on his/her transcript for grade reporting purposes. A student may not receive more than one credit toward graduation for that course.

## **REPORT CARDS**

Report cards are issued four times during the year to communicate students' term grades and other classroom achievement information.

## **SCHEDULING PROCESS**

MSD strives to schedule students' classes in the following manner:

- 1) Data is gathered regarding the student that impacts what courses that the student should take:  
Grade Point Average, courses completed, Reading Tier, HSA results, EXPLORE/PLAN/ASPIRE/ACT results, MAP testing scores, Interest Inventory Results, Career Cluster, etc.
- 2) The student will meet individually with the High School Guidance Counselor, to review the data and discuss their course plan for the following year.
- 3) The High School Guidance Counselor will give the recommended courses as well as the elective choices to the Student Database Manager, the Principal and the High School Assistant Principal.
- 4) Based on this information and teacher recommendations, the Student Database Manager, with assistance from the Principals, will develop the student schedules for the following year. Note: It is not always possible to provide the requested courses due to staffing and scheduling constraints but every effort is made to meet requests.
- 5) Schedules are provided to students and information on drop/add is provided so that changes can be made prior to the start of the school year.

## TARDIES

Students who are not in their classroom at the beginning of class are tardy and must get a pass from the principal's office. Students are permitted 5 excused tardies per quarter.

Tardies are excused for the following reasons:

- Parent sign in
- Doctor's note
- Legal documentation

All unexcused tardies will be disciplined by the following schedule:

**3 Tardies:** warning letter from the assistant principal

**4 Tardies:** 1 day lunch detention

**5 Tardies:** 3 days lunch detention

**6 Tardies:** One week of lunch detention and mandatory parent conference before returning to school the following morning.

## TRANSCRIPTS

A transcript is a high school student's official record of courses taken, final grades, credits earned toward total required for graduation, Grade Point Average (GPA), attendance and HSA status. Contact the Principal's office for more information and to obtain official copies of the transcript.

## VIRTUAL COURSES

MSDE will accept credit towards graduation for courses approved and taken through an approved vendor. The cost to take the course is the responsibility of the student and the parent/guardian. Pre-approval and assistance with scheduling/or registering for these courses is available through the MSD designated Virtual Course Coordinator/ High School Guidance Counselor.

