



## 2021-2022 Marple Newtown High School Course Selection Guide

Mr. John Beltrante, MNHS Principal

# MISSION STATEMENT

*To provide state-of-the-art educational opportunities for all students in a safe, healthy, and effective learning environment through a collaborative commitment involving students, families, staff, and community.*

Please note: The courses listed in this Course Selection Guide are tentative and subject to sufficient enrollment. The provisions of this guide should not be considered an irrevocable contract between the student and the school.

## **Marple Newtown High School**

*120 Media Line Road*

*Newtown Square, PA 19073*

**Phone:** (610) 359-4215

**Fax:** (610) 356-2194

**[www.mnsd.org](http://www.mnsd.org)**

### ***EQUAL RIGHTS AND OPPORTUNITIES POLICY***

*With the aim of assuring equal rights and opportunities within our school community, and to comply with the federal laws (including Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, Title VI of the Civil Rights Act of 1964 and OCR Guidelines IV-0, State laws and State Department of Education regulations concerning same, the Marple Newtown School District declares itself to be an equal rights and opportunities employer. As such, it does not discriminate against individuals or groups because of race, color, national origin, religion, age, sex, marital status, or non-relevant handicaps. Marple Newtown School District's commitment to non-discrimination extends to students, employees and the community.*

# Marple Newtown High School

## Course Selection Guide 2021-2022

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## INTRODUCTION

This Course Selection Guide is provided to students at Marple Newtown High School to assist them in making informed choices about the courses they will take next year. MNHS offers a variety of options and while we encourage students to delve into subjects that interest them and take calculated academic risks such as trying to go up a level in a given subject, we ask that students think judiciously and consult with their parents, teachers, and guidance counselors when selecting courses for next year. The scheduling process (including staffing, section numbers, and course placement) is driven by student requests. In this respect, we sometimes cannot honor significant schedule change requests after the master schedule is complete. We ask that students and parents please take this process seriously and give adequate thought and reflection to the courses students would like to take next year. Being thoughtful and meticulous about choices now will make next year a smooth one.

Marple Newtown High School is dedicated to providing students with a high-quality education. Courses are designed to challenge students and provide them with a rigorous education as well as develop critical thinkers who are prepared to excel in the twenty-first century workplace. We suggest that as students consider the courses they want to take next year, they become familiar with the requirements of the occupation, technical school, or college they wish to pursue after high school. Please remember that teachers, guidance counselors, case managers, and administration are all here to help students and parents with their decisions.

## ADMINISTRATION

610-359-4215

Mr. John Beltrante	Principal	610-359-4218
Mr. Donald Tabar	Assistant Principal	610-359-4293
Mr. Christian Jaspersen	Assistant Principal	610-359-4232
Mrs. Christa Palladino	Assistant Principal	610-359-4244
Mr. Christopher Gicking	Athletic Director	610-359-4232
Mrs. Julie Rufo	Assistant Athletic Director	610-359-4232

## SCHOOL COUNSELORS

### SCC

Mrs. Karen Ebert	<b>School Counseling Center Secretary</b>	610-359-4279
Mrs. Karen Brodsky	<b>School Counseling Center A - LE</b>	610-359-4225
Dr. Kelly McCool	<b>School Counseling Center LF - Z</b>	610-359-4241

### CCAC

Mrs. Diane Fallows	<b>College Career Access Center Secretary</b>	610-359-4240
Mrs. Jennifer Cipollone	<b>College Career Access Center A - GJ</b>	610-359-4229
Mr. Shane Ellison	<b>College Career Access Center GK - N</b>	610-359-4233
Ms. Tracy Jacobson	<b>College Career Access Center O - Z</b>	610-359-4246

# CURRICULUM

The curriculum of Marple Newtown High School is broad and varied. Courses are offered at the College Preparatory and Advanced levels as noted below. In addition, Special Education courses are offered in life skills, direct instruction, and co-teaching environments. The program of studies provides opportunities for all learners to acquire the knowledge and skills necessary to become productive and responsible citizens.

The ability, achievement, and interest of the students all have a significant bearing on academic performance. In English, Mathematics, Social Studies, Science, and World Language, students will be recommended for the class in which the professional staff feels they can best succeed and maximize their potential.

All classes prepare students for success at MNHS, in college, and in the work force. Students with high scholastic attainment may enroll in honors or advanced placement classes. Honors classes will typically differ from College Preparatory classes in pace, breadth, and depth. The Advanced Placement program presents college-level coursework in the high school. The recommendation of a student for a given level will be made by teachers. Students and parents review recommendations, and classes are selected through the counsel and assistance of the Guidance Department. The completed course request process and verification period represents students' final course selections.

## CURRICULUM LEVELS

### *College Preparatory:*

- **Core** – in these courses, students learn, study, and evaluate the foundational principles, ideas, terms, and concepts of a particular subject. This core curriculum provides the foundation of learning, upon which all other courses build.
- **College Preparatory** – these courses are appropriate for students with average to above-average skills and abilities who intend to further their education and who can accept the challenges of a rigorous curriculum.

### *Advanced:*

- **\*Honors** – these courses are appropriate for students with above-average skills and abilities who can accept a fast-paced and challenging course of study.
- **\*Advanced Placement** – these demanding courses present college level coursework and are most appropriate for students who can accept the demands of a comprehensive, fast-paced, and highly challenging program. *All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.*

(\*) *Weighted Course* – Weighted courses earn additional points toward the calculation of weighted GPA and class rank. Class rank and GPA are calculated with both weighted and unweighted grades. The chart below explains the weighting for each of the current classes at MNHS.

## COURSE SELECTION CHANGES

The administration at Marple Newtown High School expects students to seriously consider their choices during the course selection process. Any student who wishes to take a course other than the one recommended must obtain a waiver form from the Counseling Career Access Center. Once a student waives into a course, he or she is expected to remain in it. All waiver requests are due by **Friday, March 26, 2021.**

Once all student requests are entered into Infinite Campus, each student will receive a verification sheet, verifying the courses that he or she has requested. Course requests are not a guarantee of the courses that will appear on the final schedule. Any student who wishes to change a course request must contact his or her school counselor. All change requests must be received no later than **Friday, March 26, 2021.**

The Master Schedule will be completed during the summer. Although every attempt will be made to honor student course requests, it may not be possible to schedule students for all of their first-choice courses and alternates. In some cases, it may become necessary to consider different courses than those initially selected.

Students will receive their schedules via Infinite Campus in August. Once these schedules are available, the only changes that will be considered are those resulting from demonstrated errors or those initiated by a teacher, school counselor, or administrator. Changes will only be made with appropriate administrative approval.

In the rare instance that it is deemed necessary for a student to withdraw from a course after the first marking period, both the report card and the transcript will reflect the withdraw, with a WP if the student is passing the course at the time of the withdraw, or WF if the student is failing. Such withdraws will only be permitted with administrative approval.

***Student schedules will not be finalized and released via Infinite Campus mid-August.***

***The only changes that will be made are those resulting from demonstrated errors during the scheduling process.***

***Such changes MUST be made by***

***August 30, 2021***

***Once classes begin, requests to change course level or to withdraw from a course will only be considered at the end of the first marking period at the initiation of a teacher or administrator.***

## GRADUATION REQUIREMENTS

<b>Courses</b>		<b>Credits</b>
Health/Physical Education		2.5
Health	1.0	
Physical Education	1.5	
English		4.0
Social Studies		4.0
Mathematics	3.0	
Science	3.0	
Math/Science Combined		7.0
World Language		1.0
Electives		6.5
BTE	1.0	
Arts	1.0	
Other Electives	4.5	
Career Pathways*	.50	
Senior Project		1.0
<b>Total</b>		<b>26.0</b>

\*Career Pathways counts toward BTE Credit

<b>Graduation Progression</b>	<b>Credits</b>
9 <sup>th</sup>	8.0
10 <sup>th</sup>	8.0
11 <sup>th</sup>	7.5

### Keystone Exams

Students are required to attain proficiency, as defined by the Commonwealth of Pennsylvania, on the Keystone Exams. Current interpretation would be proficient or higher on the Algebra I, Literature, and Biology Keystone Exams. Students who do not eventually achieve a score of proficient or higher will participate in a district-based remediation program prior to graduation. Any policy developed by the Pennsylvania Department of Education regarding the Keystone exams and graduation requirements may supersede the district policy.

## PREPARING FOR COLLEGE

Beginning in the junior year, many students begin to think about and prepare for the college admissions process. Guidance counselors can provide more detailed information, but the chart below is a brief summary of the different tests a student may consider taking as a junior or senior.

SAT – REASONING	SAT – SUBJECT TEST	ACT	AP TESTS
<b>Purpose:</b> To predict students' college & career readiness	<b>Purpose:</b> To measure knowledge in particular subject areas	<b>Purpose:</b> To measure academic achievement in specific subject areas	<b>Purpose:</b> To enable students to pursue college-level studies while in high school
<b>Abilities or Skills Tested:</b> Words in context, analysis in History and Science, expression of ideas, standard English conventions, math fluency, conceptual understanding, mathematical application	<b>Abilities or Skills Tested:</b> Knowledge of English, History/Social Studies, Mathematics, Science, or Language	<b>Abilities or Skills Tested:</b> English, Mathematics, Reading, and Science; There is an optional writing section	<b>Abilities or Skills Tested:</b> Specific content knowledge and skills in specific courses
<b>Used by Colleges to:</b> Evaluate students' aptitudes for college-level work	<b>Used by Colleges to:</b> Measure students' knowledge and skills in specific subject areas, and their ability to apply that knowledge	<b>Used by Colleges to:</b> Make decisions regarding admission, academic advising, & course placement	<b>Used by Colleges to:</b> Offer students credit, placement, or both
<b>Format:</b> Multiple choice, grid-in answers, & optional essay	<b>Format:</b> Multiple Choice	<b>Format:</b> Multiple choice & optional writing	<b>Format:</b> Multiple choice & performance tasks (e.g., essays, problem solving)
<b>Duration:</b> 3 hours (plus 50 minutes for the optional essay)	<b>Duration:</b> 1 hour each	<b>Duration:</b> Approximately 3 hours; 3 hours, 30 minutes if taking the optional writing portion	<b>Duration:</b> 3 hours each
<b>Scores:</b> 200 – 800 point scale for a total possible score of 1600 Essay results reported separately	<b>Scores:</b> 200-800 point scale	<b>Scores:</b> Each subject area is scored on a scale of 1-36 and the composite score is calculated by averaging the four test scores	<b>Scores:</b> 5 – Very Well Qualified 4 – Well Qualified 3 – Qualified 2 – Possibly Qualified 1 – No Recommendation

## NON-STEM Academy PATHWAY CHART AND MNHS ELECTIVES

The pathway chart will assist students in navigating the high school elective course offerings and how they relate to each pathway. Students can use this chart to prepare an academic plan centered on a career goal.

	Career Clusters	Marple Newtown High School	DCTS Programs
STEM Pathway	Engineering & Industrial Technologies	Intro to Engineering Design Principles of Engineering Architectural Design & Construction Robotics Network Fundamentals I, II Game Development I, II Software Development Introduction to Electronics Introduction to Python Programming Introduction to Java Programming Trigonometry Discrete Math: Intro to Calculus Calculus Logic	School of Health & Biosciences  School of Engineering & Computer Science <ul style="list-style-type: none"> <li>• Apple Systems &amp; Designs</li> <li>• Computer Networking &amp; Digital Forensics</li> <li>• Engineering Technologies</li> </ul> School of Construction Technology
	Health & Medical Professions	Human Body Systems Forensics	
	Natural Resources & Environmental Science	Environmental Science Wildlife Conservation	
Arts & Human Services Pathway	Business, Marketing & Management	Digital Information Technologies Accounting Marketing Statistics (Honors/AP) Personal Finance International Relations Psychology Leadership and Character	School of Engineering & Computer Science <ul style="list-style-type: none"> <li>• Advertising Design &amp; Commercial Art</li> </ul> School of Hospitality, Tourism, & Human Services
	Arts & Communications	Broadcasting Video Production I, II Graphic Design I, II Journalism Speech Leadership and Character	
	Community & Consumer Services	Child Psychology Preschool Lab Culinary Arts I, II, III Sociology	



# Marple Newtown High School

## STEM Academy Program of Study

### GRADE 9

SUBJECT	COURSE	CREDITS
ENG	English 9 (Honors)	1.0
SOC ST	World Civ I (Honors) or AP Human Geography	1.0
MATH	Algebra I (College Prep), Geometry (Honors) or Alg II/Trig (Honors) *this course is leveled appropriately	1.0
SCIENCE	Integrated Science (Honors), Biology (Honors), Pre-AP Biology *this course is leveled appropriately meeting pre-requisites	1.0
LANGUAGE	Spanish I, II, III (College Prep), IV (Honors) French I, II, III (College Prep), IV (Honors) *this course is leveled appropriately	1.0
SEMINAR	STEM Seminar 9 *this course is required for STEM Academy	0.5
HE	Health I *this course is required for ALL 9th grade students	0.5
PE	Intro to Physical Education *this course is required for ALL 9th grade students	0.5
STEM ELECT.	STEM Intro to Engineering STEM Leadership & Character *this course is required for STEM Academy	1.0
BTE	STEM Career Pathways *this course is required for STEM Academy	0.5

STEM Academy students are encouraged to enroll in H or AP courses in each Core content area (courses are subject to change).

8 Total Credits

## Course Offerings

# Marple Newtown High School

## COURSE OFFERINGS 2021-2022

Courses are listed numerically, by department.

\* = Weighted Courses, + = IEP Required, New courses are highlighted in bold.

### STEM ACADEMY

Course	Course Name	No. of Semesters	Grade	Credit
9420	STEM Seminar	1	9	0.5
9421	STEM Introduction to Engineering	1	9	0.5
9422	STEM Leadership and Character	1	9	0.5
9423	STEM Career Pathways	1	9	0.5

### HEALTH AND PHYSICAL EDUCATION

Course	Course Name	No. of Semesters	Grade	Credit
0460	Introduction to Physical Education	1	9	0.5
0461	Health I	1	9	0.5
0560	General Physical Education	1	10, 11, 12	0.5
0561	Health II	1	10, 11, 12	0.5
0870	Strength Training I	1	10, 11, 12	0.5
0871	Strength Training II	1	10, 11, 12	0.5
0872	Life Guard/First Aid	1	10, 11, 12	0.5
0874	Circuit Training	1	10, 11, 12	0.5
0875	Yoga	1	10, 11, 12	0.5
0892	Cardio Training	1	10, 11, 12	0.5
0893	Nets	1	10, 11, 12	0.5
0895	Recreational Physical Education	1	10, 11, 12	0.5
0671	Advanced Team Sports	1	11, 12	0.5
0771	PE Senior Leader	1	12	0.5

### ENGLISH

Course	Course Name	No. of Semesters	Grade	Credit
1410	English 9: Literary Genre - Honors*	2	9	1.0
1420	English 9: Literary Genre	2	9	1.0
1430	English 9: Literary Genre	2	9	1.0
1440	English 9: Literary Genre+	2	9	1.0
1510	English 10: World Literature I - Honors*	2	10	1.0
1520	English 10: World Literature I	2	10	1.0
1530	English 10: World Literature I	2	10	1.0
1540	English 10: World Literature I+	2	10	1.0
1610	English 11: American Literature – Honors*	2	11	1.0
1614	English 11: English Language & Comp. - AP*	2	11	1.0
1620	English 11: American Literature	2	11	1.0
1630	English 11: American Literature	2	11	1.0
1640	English 11: American Literature+	2	11	1.0
1710	English 12: World Literature II – Honors*	2	12	1.0
1715	English 12: Literature and Composition - AP*	2	12	1.0
1720	English 12: World Literature II	2	12	1.0
1730	English 12: World Literature II	2	12	1.0
1740	English 12: World Literature II+	2	12	1.0
1830	Reading Strategies	2	9	1.0
1841	Reading Support	2	10, 11, 12	1.0
1835	Keystone Literature Remediation	1	11, 12	0.5
1870	Poetry	1	9, 10, 11, 12	0.5
1871	Theater as Living Art	1	9, 10, 11, 12	0.5
1872	Cinema Development and Appreciation	1	9, 10, 11, 12	0.5
1873	Speech	1	9, 10, 11, 12	0.5
1874	Journalism I	1	9, 10, 11, 12	0.5
1875	Creative Writing	1	9, 10, 11, 12	0.5
1876	Ancient Greek Literature and Beyond	1	9, 10, 11, 12	0.5

## Course Offerings

# Marple Newtown High School

## COURSE OFFERINGS 2021-2022

Courses are listed numerically, by department.

\* = Weighted Courses, + = IEP Required, New courses are highlighted in bold.

### ENGLISH *(continued)*

Course	Course Name	No. of Semesters	Grade	Credit
1878	Women's Literature of the Americas	1	9, 10, 11, 12	0.5
1884	Skills for Test Taking: Reading/Writing	1	10, 11, 12	0.5
1961	English Language Learners I	2	9, 10, 11, 12	1.0
1962	English Language Learners II	2	9, 10, 11, 12	1.0
1963	English Language Learners III	2	9, 10, 11, 12	1.0
1964	English Language Learners Support	2	9, 10, 11, 12	0.0

### SOCIAL STUDIES

Course	Course Name	No. of Semesters	Grade	Credit
2410	World Civilizations & Cultures I - Honors*	2	9	1.0
2420	World Civilizations & Cultures I	2	9	1.0
2430	World Civilizations & Cultures I	2	9	1.0
2510	World Civilizations & Cultures II – Honors*	2	10	1.0
2415	Human Geography – AP*	2	9	1.0
2515	World History - AP*	2	10	1.0
2516	Modern European History - AP*	2	10	1.0
2520	World Civilizations & Cultures II	2	10	1.0
2530	World Civilizations & Cultures II	2	10	1.0
2610	20 <sup>th</sup> Century America – Honors*	2	11	1.0
2615	United States History - AP*	2	11	1.0
2620	20 <sup>th</sup> Century America	2	11	1.0
2630	20 <sup>th</sup> Century America	2	11	1.0
2710	Macro/Micro Economics - AP*	2	12	1.0
2715	U.S. Government and Politics - AP*	2	12	1.0
2720	Political and Economic Issues	2	12	1.0
2730	Political and Economic Issues	2	12	1.0
2810	Psychology - AP*	2	11, 12	1.0
2870	Sociology	1	10, 11, 12	0.5
2871	Psychology	1	10, 11, 12	0.5
2872	America's Civil Wars	1	9, 10, 11, 12	0.5
2873	World War II and The Vietnam War	1	9, 10, 11, 12	0.5
2874	International Relations	1	9, 10, 11, 12	0.5
2875	The Civil Rights Movement	1	9, 10, 11, 12	0.5
2876	America and Its Courts	1	9, 10, 11, 12	0.5
2877	The Presidents as People	1	9, 10, 11, 12	0.5
2878	Leadership and Character	1	9, 10, 11, 12	0.5

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# Marple Newtown High School

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### MATHEMATICS

Course	Course Name	No. of Semesters	Grade	Credit
3420	Algebra I	2	9, 10, 11, 12	1.0
3430	Algebra I	2	9, 10, 11, 12	1.0
3440	Algebra I – Part A+	2	9	1.0
3540	Algebra I – Part B+	2	10, 11, 12	1.0
3510	Geometry - Honors*	2	9, 10, 11, 12	1.0
3520	Geometry	2	9, 10, 11, 12	1.0
3530	Geometry	2	9, 10, 11, 12	1.0
3541	Geometry+	2	9, 10, 11, 12	1.0
3610	Algebra II/Trigonometry - Honors*	2	10, 11, 12	1.0
3620	Algebra II/Trigonometry	2	10, 11, 12	1.0
3630	Algebra II	2	10, 11, 12	1.0
3640	Algebra II+	2	10, 11, 12	1.0
3710	Pre-Calculus - Honors*	2	10, 11, 12	1.0
3711	Discrete Math: Intro to Calculus - Honors*	2	10, 11, 12	1.0
3712	Statistics - AP*	2	9, 10, 11, 12	1.0
3713	Calculus AB - AP*	2	9, 10, 11, 12	1.0
3714	Calculus BC - AP*	2	9, 10, 11, 12	1.0
3715	Computer Science A - AP*	2	9, 10, 11, 12	1.0
3716	Intro to Java Programming	1	9, 10, 11, 12	0.5
3717	AP Computer Science Principles*	2	9, 10, 11, 12	1.0
3720	Pre-Calculus	2	10, 11, 12	1.0
3721	Trigonometry Introduction	1	10, 11, 12	0.5
3722	to Statistics	1	10, 11, 12	0.5
3723	Statistics – Honors*	2	10, 11, 12	1.0
3724	Math for Life and Work	1	9, 10, 11, 12	0.5
3725	Personal Finance	1	9, 10, 11, 12	0.5
3726	Logic	1	10, 11, 12	0.5
3770	Intro Python Program	1	9, 10, 11, 12	0.5
3773	Skills for Test Taking: Math	1	10, 11, 12	0.5
3835	Algebra I Keystone Remediation	1	9, 10, 11, 12	0.5

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\* = Weighted Courses, + = IEP Required, New courses are highlighted in bold.

### SCIENCE

Course	Course Name	No. of Semesters	Grade	Credit
4410	Integrated Science - Honors*	2	9	1.0
4420	Integrated Science	2	9	1.0
4430	Integrated Science	2	9	1.0
4510	Biology - Honors*	2	9, 10	1.0
4511	Biology-Pre-AP*	2	9, 10	1.0
4515	Biology - AP*	2	11, 12	1.5
4520	Biology	2	10	1.0
4530	Biology	2	10	1.0
4835	Biology Keystone Remediation	1	10, 11, 12	0.5
4610	Chemistry - Honors*	2	10, 11	1.0
4615	Chemistry - AP*	2	12	1.5
4616	Environmental Science - AP*	2	12	1.5
4620	Chemistry	2	11	1.0
4630	Chemistry	2	11	1.0
4710	Physics - Honors*	2	11, 12	1.0
4715	Physics I - AP*	2	12	1.5
4720	Physics	2	12	1.0
4730	Physics	2	12	1.0
4870	Wildlife Conservation	1	10, 11, 12	0.5
4871	Environmental Science	1	11, 12	0.5
4872	Forensic Science	1	11, 12	0.5
4873	Human Body Systems	2	11, 12	1.0

### WORLD LANGUAGE

Course	Course Name	No. of Semesters	Grade	Credit
5320	Spanish I	2	9, 10, 11, 12	1.0
5420	Spanish II	2	9, 10, 11, 12	1.0
5520	Spanish III	2	9, 10, 11, 12	1.0
5610	Spanish IV – Honors*	2	9, 10, 11, 12	1.0
5620	Spanish IV	2	9, 10, 11, 12	1.0
5710	Spanish V – Honors*	2	10, 11, 12	1.0
5711	Advanced Spanish Studies – Honors*	2	11, 12	1.0
5712	Spanish Language and Culture – AP*	2	12	1.0
5321	French I	2	9, 10, 11, 12	1.0
5421	French II	2	9, 10, 11, 12	1.0
5521	French III	2	9, 10, 11, 12	1.0
5611	French IV – Honors*	2	9, 10, 11, 12	1.0
5621	French IV	2	9, 10, 11, 12	1.0
5714	French V – Honors*	2	10, 11, 12	1.0
5715	French Language and Culture - AP*	2	11, 12	1.0

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### BUSINESS AND TECHNOLOGY EDUCATION

#### COMMUNICATIONS AND TECHNOLOGY

Course	Course Name	No. of Semesters	Grade	Credit
6460	Digital Information Technologies	1	9, 10, 11, 12	0.5
6461	Introduction to Software Development	1	9, 10, 11, 12	0.5
6462	Computer Systems/ Network Fundamentals	1	9, 10, 11, 12	0.5
6463	Computer Systems/ Network Fundamentals II	1	9, 10, 11, 12	0.5
6560	Game Development	1	10, 11, 12	0.5
6561	Game Development II	1	10, 11, 12	0.5
6562	STEM Innovation and Invention - Robotics	1	10, 11, 12	0.5
6563	STEM Rocks	1	10, 11, 12	0.5
6860	Intro to Engineering Design	1	9, 10, 11, 12	0.5
6861	Principles of Engineering	1	9, 10, 11, 12	0.5
6863	Introduction to Electronics	1	9, 10, 11, 12	0.5
6865	Video Production I	1	9, 10, 11, 12	0.5
6866	Video Production II	1	9, 10, 11, 12	0.5
6867	Broadcasting	2	9, 10, 11, 12	1.0
6870	Graphic Design I	1	9, 10, 11, 12	0.5
6871	Graphic Design II	1	9, 10, 11, 12	0.5
6874	Architectural Design and Construction	1	9, 10, 11, 12	0.5
6972	Accounting	1	10, 11, 12	0.5
6973	Marketing	1	9, 10, 11, 12	0.5
6974	Introduction to Business	1	9, 10, 11, 12	0.5

#### FAMILY AND CONSUMER SCIENCES

Course	Course Name	No. of Semesters	Grade	Credit
6770	Child Development	1	9, 10, 11, 12	0.5
6771	Preschool Lab	1	10, 11, 12	0.5
6780	Culinary Arts I	1	10, 11, 12	0.5
6781	Culinary Arts II	1	10, 11, 12	0.5
6782	Culinary Arts III	1	11, 12	0.5

### VISUAL AND PERFORMING ARTS

#### PHOTOGRAPHY

Course	Course Name	No. of Semesters	Grade	Credit
6889	Photography Then and Now	1	9, 10, 11, 12	0.5
6890	Photography I	1	9, 10, 11, 12	0.5
6891	Photography II	1	9, 10, 11, 12	0.5
6892	Photography III	1	10, 11, 12	0.5
6893	Photography IV	1	11, 12	0.5
6894	Digital Imaging I	1	9, 10, 11, 12	0.5
6895	Digital Imaging II	1	9, 10, 11, 12	0.5
6896	Digital Imaging III	1	10, 11, 12	0.5
6897	Digital Imaging IV	1	11, 12	0.5
7912	Studio Art - AP* Photo	2	11, 12	1.0
7913	Studio Art - AP* Digital	2	11, 12	1.0

# Marple Newtown High School

## COURSE OFFERINGS 2021-2022

Courses are listed numerically, by department.

\* = Weighted Courses, + = IEP Required, New courses are highlighted in bold.

### VISUAL AND PERFORMING ARTS (*continued*)

#### ART

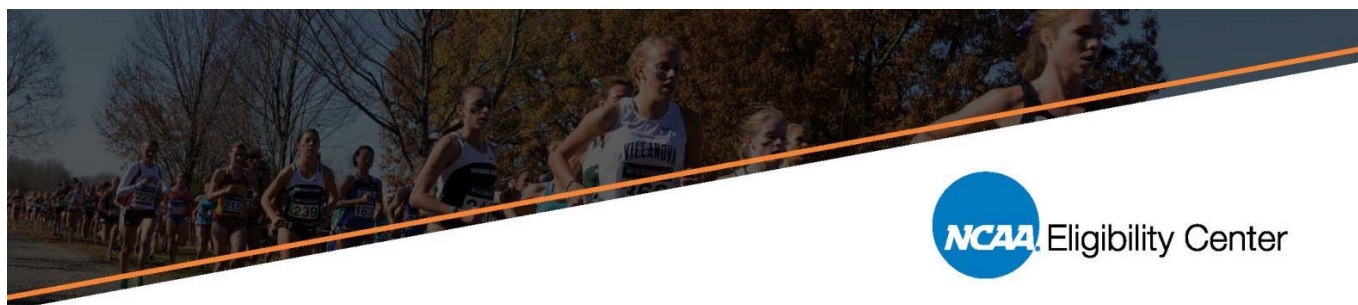
Course	Course Name	No. of Semesters	Grade	Credit
7910	Studio Art - AP* Drawing	2	11, 12	1.0
7911	Studio Art - AP* 3D	2	11, 12	1.0
7970	Drawing and Painting	1	9, 10, 11, 12	0.5
7971	Visual Art	1	9, 10, 11, 12	0.5
7972	Decorative and Functional Art	1	9, 10, 11, 12	0.5
7973	Three-Dimensional Design	1	9, 10, 11, 12	0.5
7975	Illustration and Cartooning I	1	9, 10, 11, 12	0.5
7976	Illustration and Cartooning II	1	10, 11, 12	0.5
7980	Studio Art I	2	9, 10, 11, 12	1.0
7981	Studio Art II	2	10, 11, 12	1.0
7982	Studio Art III	2	11, 12	1.0
7991	Ceramics I	1	9, 10, 11, 12	0.5
7992	Ceramics II	1	9, 10, 11, 12	0.5

#### MUSIC

Course	Course Name	No. of Semesters	Grade	Credit
7560	Piano I	1	9, 10, 11, 12	0.5
7561	Piano II	1	9, 10, 11, 12	0.5
7562	Guitar I	1	9, 10, 11, 12	0.5
7563	Guitar II	1	9, 10, 11, 12	0.5
7810	Music Theory - AP*	2	10, 11, 12	1.0
7870	Music Theory	1	9, 10, 11, 12	0.5
7874	American Music Theater	1	9, 10, 11, 12	0.5
7880	Band - Brass	2	9, 10, 11, 12	1.0
7881	Band – Percussion	2	9, 10, 11, 12	1.0
7882	Band – Woodwind	2	9, 10, 11, 12	1.0
7883	Choir	2	9, 10, 11, 12	1.0
7885	Orchestra	2	9, 10, 11, 12	1.0
7892	Music Technology I	1	9, 10, 11, 12	0.5
7893	Music Technology II	1	10, 11, 12	0.5
7894	Music Technology III	1	10, 11, 12	0.5

### CAREER EDUCATION

Course	Course Name	No. of Semesters	Grade	Credit
9599	Career Pathways	1	10	0.5
9600	Junior Initiative	1	11	0.5
9700	Senior Project	1	12	1.0
9760	Work Experience	1	12	0.0
9761	Service Learning	1	12	0.5
9880	Technical Program	2	10, 11, 12	3.5



## DIVISION I ACADEMIC REQUIREMENTS

College-bound student-athletes will need to meet the following academic requirements to practice, receive athletics scholarships, and/or compete during their first year.

### Core-Course Requirement

Complete 16 core courses in the following areas:



### Full Qualifier

- Complete 16 core courses.
  - Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school.
  - Seven of the 10 core courses must be in English, math or natural/physical science.
- Earn a core-course GPA of at least 2.300.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

### Academic Redshirt

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

### Full Qualifier:

College-bound student-athletes may practice, compete and receive athletics scholarships during their first year of enrollment at an NCAA Division I school.

### Academic Redshirt:

College-bound student-athletes may receive athletics scholarships during their first year of enrollment and may practice during their first regular academic term, but may NOT compete during their first year of enrollment.

### Nonqualifier:

College-bound student-athletes cannot practice, receive athletics scholarships or compete during their first year of enrollment at an NCAA Division I school.

**International Students:** Please visit [ncaa.org/international](http://ncaa.org/international) for information and academic requirements specific to international student-athletes.

## Test Scores

When a student registers for the SAT or ACT, he or she can use the NCAA Eligibility Center code of **9999** so his or her scores are sent directly to the NCAA Eligibility Center from the testing agency. Test scores on transcripts will **NOT** be used in his or her academic certification.

A combined SAT score is calculated by adding reading and math subscores. An ACT sum score is calculated by adding English, math, reading and science subscores. A student may take the SAT or ACT an unlimited number of times before he or she enrolls full time in college. If a student takes either test more than once, the best subscores from each test are used for the academic certification process.

If you took the SAT in March 2016 or after, and plan to attend an NCAA Division I college or university in the 2018-19 or 2019-20 academic years, use the following charts to understand the core-course GPA you need to meet NCAA Division I requirements.

For more information on the SAT, click [here](#) to visit the College Board's website.

DIVISION I FULL QUALIFIER SLIDING SCALE			
Core GPA	New SAT*	Old SAT (Prior to 3/2016)	ACT Sum
3.550	400	400	37
3.525	410	410	38
3.500	430	420	39
3.475	440	430	40
3.450	460	440	41
3.425	470	450	41
3.400	490	460	42
3.375	500	470	42
3.350	520	480	43
3.325	530	490	44
3.300	550	500	44
3.275	560	510	45
3.250	580	520	46
3.225	590	530	46
3.200	600	540	47
3.175	620	550	47
3.150	630	560	48
3.125	650	570	49
3.100	660	580	49
3.075	680	590	50
3.050	690	600	50
3.025	710	610	51
3.000	720	620	52
2.975	730	630	52
2.950	740	640	53
2.925	750	650	53
2.900	750	660	54
2.875	760	670	55
2.850	770	680	56
2.825	780	690	56
2.800	790	700	57
2.775	800	710	58

DIVISION I FULL QUALIFIER SLIDING SCALE			
Core GPA	New SAT*	Old SAT (Prior to 3/2016)	ACT Sum
2.750	810	720	59
2.725	820	730	60
2.700	830	740	61
2.675	840	750	61
2.650	850	760	62
2.625	860	770	63
2.600	860	780	64
2.575	870	790	65
2.550	880	800	66
2.525	890	810	67
2.500	900	820	68
2.475	910	830	69
2.450	920	840	70
2.425	930	850	70
2.400	940	860	71
2.375	950	870	72
2.350	960	880	73
2.325	970	890	74
2.300	980	900	75
2.299	990	910	76
2.275	990	910	76
2.250	1000	920	77
2.225	1010	930	78
2.200	1020	940	79
2.175	1030	950	80
2.150	1040	960	81
2.125	1050	970	82
2.100	1060	980	83
2.075	1070	990	84
2.050	1080	1000	85
2.025	1090	1010	86
2.000	1100	1020	86

ACADEMIC REDSHIRT

\*Final concordance research between the new SAT and ACT is ongoing.

NCAA is a trademark of the National Collegiate Athletic Association.



## 2018 DIVISION II NEW ACADEMIC REQUIREMENTS

College-bound student-athletes first enrolling at an NCAA Division II school on or after Aug. 1, 2018, need to meet new academic rules to practice, compete and receive athletics scholarships during their first year.

### Core-Course Requirement

Complete 16 core courses in the following areas:

<b>ENGLISH</b>	<b>MATH</b> (Algebra I or higher)	<b>NATURAL/ PHYSICAL SCIENCE</b> (Including one year of lab, if offered)	<b>ADDITIONAL</b> (English, math, or natural/physical science)	<b>SOCIAL SCIENCE</b>	<b>ADDITIONAL COURSES</b> (Any area listed to the left, foreign language or comparative religion/philosophy)
3 years	2 years	2 years	3 years	2 years	4 years

### Full Qualifier

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.200.
- Earn the ACT/SAT score matching your core-course GPA on the Division II full qualifier sliding scale (see back page).
- Graduate high school.

### Partial Qualifier

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn the ACT/SAT score matching your core-course GPA on the Division II partial qualifier sliding scale (see back page).
- Graduate high school.

### Full Qualifier:

College-bound student-athletes may practice, compete and receive athletics scholarships during their first year of enrollment at an NCAA Division II school.

### Partial Qualifier:

College-bound student-athletes may receive athletics scholarships during their first year of enrollment and may practice during their first regular academic term, but may NOT compete during their first year of enrollment.

### Nonqualifier:

College-bound student-athletes may not practice, compete or receive athletics scholarships during their first year of enrollment at an NCAA Division II school.

**International Students:** Please visit [ncaa.org/international](http://ncaa.org/international) for information and academic requirements specific to international student-athletes.

# NCAA Eligibility Requirements

## Test Scores

If you took the SAT in March 2016 or after, and plan to attend an NCAA Division II college or university in the 2018-19 or 2019-20 academic years, use the following charts to understand the core-course GPA you need to meet NCAA Division II requirements.

A combined SAT score is calculated by adding reading and math subscores. An ACT sum score is calculated by adding English, math, reading and science subscores. You may take the SAT or ACT an unlimited number of times before you enroll full time in college. If you take either test more than once, the best subscores from each test are used for the academic certification process.

For more information on the SAT, click [here](#) to visit the College Board's website.

DIVISION II FULL QUALIFIER SLIDING SCALE			
USE FOR DIVISION II BEGINNING AUGUST 2018			
Core GPA	New SAT*	Old SAT (Prior to 3/2016)	ACT Sum
3.300 & above	400	400	37
3.275	410	410	38
3.250	430	420	39
3.225	440	430	40
3.200	460	440	41
3.175	470	450	41
3.150	490	460	42
3.125	500	470	42
3.100	520	480	43
3.075	530	490	44
3.050	550	500	44
3.025	560	510	45
3.000	580	520	46
2.975	590	530	46
2.950	600	540	47
2.925	620	550	47
2.900	630	560	48
2.875	650	570	49
2.850	660	580	49
2.825	680	590	50
2.800	690	600	50
2.775	710	610	51
2.750	720	620	52
2.725	730	630	52
2.700	740	640	53
2.675	750	650	53
2.650	750	660	54
2.625	760	670	55
2.600	770	680	56
2.575	780	690	56
2.550	790	700	57
2.525	800	710	58
2.500	810	720	59
2.475	820	730	60
2.450	830	740	61
2.425	840	750	61
2.400	850	760	62
2.375	860	770	63
2.350	860	780	64
2.325	870	790	65
2.300	880	800	66
2.275	890	810	67
2.250	900	820	68
2.225	910	830	69
2.200	920	840 & above	70 & above

DIVISION II PARTIAL QUALIFIER SLIDING SCALE			
USE FOR DIVISION II BEGINNING AUGUST 2018			
Core GPA	New SAT*	Old SAT (Prior to 3/2016)	ACT Sum
3.050 & above	400	400	37
3.025	410	410	38
3.000	430	420	39
2.975	440	430	40
2.950	460	440	41
2.925	470	450	41
2.900	490	460	42
2.875	500	470	42
2.850	520	480	43
2.825	530	490	44
2.800	550	500	44
2.775	560	510	45
2.750	580	520	46
2.725	590	530	46
2.700	600	540	47
2.675	620	550	47
2.650	630	560	48
2.625	650	570	49
2.600	660	580	49
2.575	680	590	50
2.550	690	600	50
2.525	710	610	51
2.500	720	620	52
2.475	730	630	52
2.450	740	640	53
2.425	750	650	53
2.400	750	660	54
2.375	760	670	55
2.350	770	680	56
2.325	780	690	56
2.300	790	700	57
2.275	800	710	58
2.250	810	720	59
2.225	820	730	60
2.200	830	740	61
2.175	840	750	61
2.150	850	760	62
2.125	860	770	63
2.100	860	780	64
2.075	870	790	65
2.050	880	800	66
2.025	890	810	67
2.000	900	820 & above	68 & above

\*Final concordance research between the new SAT and ACT is ongoing.

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## **STEM ACADEMY**

### **STEM SEMINAR 9**

**9420**

**Semester /0.5 credit**

**Grade 9**

STEM Seminar 9 is a course about design thinking. This course allows students to explore a problem solving methodology especially suited for investigating imprecise problems where collaboration is paramount and the cycle of taking risks, experiencing failures and growth, and chasing successful outcomes are at the core. Design thinking emphasizes deep user understanding, iteration, and a focus on possibilities and multiple approaches as a way to enhance value creation for stakeholders. You'll learn how to envision, explain, and evaluate solutions to a wide range of human problems involving information and interaction with hands-on inquiry and open-ended exploration. These skills include user research methods, visual and interaction design skills, methods for evaluating designs, and skills for communicating designs. Throughout the course students will work on three different challenges; one focused on themselves, one focused on MNHS, and one focused on the MNSD community. The primary vehicle for student learning is participation in team-based projects in the domains of media, engineering, and health.

### **STEM INTRODUCTION TO ENGINEERING**

**9421**

**Semester /0.5 credit**

**Grade 9**

STEM Introduction to Engineering Design introduces 9<sup>th</sup> grade STEM Academy students to engineering concepts that focus on critical thinking and problem-solving. Group and individual activities engage students in creating ideas, developing innovations, and engineering practical solutions. Students will tackle design challenges by applying concepts of science, mathematics, and other curricular areas content to authentic situations.

### **STEM LEADERSHIP AND CHARACTER**

**9422**

**Semester /0.5 credit**

**Grade 9**

STEM Leadership and Character aims to develop students' leadership abilities through activities that promote collaborative and critical-thinking skills. STEM Academy students will build capacity in these future-ready skills by identifying and practicing leadership skills, learning from experienced leaders, and communicating solutions to others. This course includes the study of leadership through psychology, sociology, and biography, as well as the application of leadership theories, concepts, and skills in order to develop students' own leadership potential. Students will complete personal and leadership self-assessments, explore values, and be exposed to STEM leadership skills through course activities.

### **STEM CAREER PATHWAYS**

**9423**

**Semester /0.5 credit**

**Grade 9**

STEM Career Pathways is a graduation requirement for all students. This course will enhance college and career readiness skills by assisting our tenth-grade students with investigating all post-secondary options such as, but not limited to: 2-or 4-year college, career/technical institute, military service, employment, apprenticeship, or service. Students will become familiar with career pathways and the use of a comprehensive college and career readiness solution system. The central pillars of career awareness and preparation, acquisition, retention and advancement, and entrepreneurship will be explored through topics such as, but not limited to: career research, self-evaluation and reflection, resume building, goal setting, time management, financial literacy, conflict resolution, critical thinking, social responsibility, effective communication and collaboration. The Career Pathways course will culminate with each student producing an individual career plan and career portfolio for use with their post-secondary transition.

### **HEALTH AND PHYSICAL EDUCATION**

Health and Physical Education are integral parts of the total educational process at Marple Newtown High School. Through selected experiences and activities, Physical Education contributes to the growth and development of all students in the physical, intellectual, social, and emotional dimension of each individual. Health Education provides instruction in the concept of wellness and offers students several opportunities to develop lifelong health-enhancing behaviors by promoting health literacy, critical thinking, and responsible decision-making throughout the curriculum. The Health and Physical Education program prepares students to become contributing and productive members of our rapidly changing, democratic society.

#### **HEALTH AND PHYSICAL EDUCATION DEPARTMENT RECOMMENDED SEQUENCE OF COURSES**

**\*Students may not take more than 2 Physical Education courses in the same academic year\***

#### **REQUIRED COURSES (\*\*)**

<b>Grade 9</b>	<b>Grade 10</b>
Introduction to Physical Education (0460)** Health I (0461)**	General Physical Education (0560) Health II (0561)** Strength Training I (0870) Strength Training II (0871) Lifeguarding/First Aid (0872) Cardio Training (0892) Nets (0893) Recreational Physical Education (0895) Circuit Training (0874) Yoga (0875)
<b>Grade 11</b>	<b>Grade 12</b>
General Physical Education (0560) Strength Training I (0870) Strength Training II (0871) Lifeguarding/First Aid (0872) Cardio Training (0892) Nets (0893) Recreational Physical Education (0895) Circuit Training (0874) Yoga (0875) Advanced Team Sports (0671)	General Physical Education (0560) Strength Training I (0870) Strength Training II (0871) Lifeguarding/First Aid (0872) Cardio Training (0892) Nets (0893) Recreational Physical Education (0895) Circuit Training (0874) Yoga (0875) Advanced Team Sports (0671) PE Senior Leader (0771)

**\*Please note that if a student misses 15 or more days of a Physical Education class, even with a doctor's note, he or she may have to drop the course.\***

## CORE HEALTH AND PHYSICAL EDUCATION COURSES

### INTRODUCTION TO PHYSICAL EDUCATION

**0460**

**Semester/0.5 credit**

**Grade 9**

The ninth grade Skill Instruction Program includes the teaching of fundamental skills used in team sports and individual sports activities. Students are drilled in the fundamental skills, rules, and basic strategies of these athletic activities. In addition, each student must participate in a required aquatics module included within this course. The aquatics requirement for graduation combines an assessed proficiency in aquatic skills along with a demonstration of safety awareness and behaviors near and in the water. The aquatics module is coeducational. The course is taught by a certified instructor.

### HEALTH I

**0461**

**Semester/0.5 credit**

**Grade 9**

The quality of a human's life is determined by the combination of personal choices, genetics, and the environment. The ninth grade Health Education course studies content in the areas of safety, nutrition, disease and disorders, personal health, growth and development, human interactions, and drugs and alcohol. Community resources provide current information and awareness on the topics of HIV/AIDS and sexual assault/harassment. Content is presented using a variety of strategies to provide students with information and skills as well as many opportunities for practical application of knowledge on a personal level.

### HEALTH II

**0561**

**Semester/0.5 credit**

**Grade 10, 11, 12**

The quality of a human's life is determined by the combination of personal choices, genetics, and the environment. The tenth grade Health Education program studies content from an adult's perspective in the areas of safety, nutrition, disease and disorders, personal health, growth and development, human interactions, and drugs and alcohol. Community resources provide updated information and awareness on the topics of HIV/AIDS, sexual assault/harassment/violence, and sexual abstinence.

## HEALTH AND PHYSICAL EDUCATION ELECTIVES

The Health and Physical Education Department offers a variety of electives designed to encourage students to explore areas of concentration in physical education. These courses may be used to fulfill the Physical Education graduation requirements. Elective courses are available for students in grades 10, 11, and 12. Students may take up to two (2) Physical Education classes per academic year.

### GENERAL PHYSICAL EDUCATION

**0560**

**Semester/0.5 credit**

**Grade 10, 11, 12**

This course includes participation in team activities, individual sports activities, various leisure-time activities, recreational lifetime, and carry-over activities. The primary emphasis for the students is participation in these activities. Skills and fundamentals will also be reviewed.

### STRENGTH TRAINING I

**0870**

**Semester/0.5 credit**

**Grade 10, 11, 12**

This course will consist of classroom and weight room instruction. The purpose of classroom instruction is to teach the fundamentals of nutrition, safety, planning, and design. The fitness center instruction will utilize free weights, selector machines, hammer machines, and cardiovascular equipment. 40% of the class time will be spent in the classroom and 60% will be spent in the Fitness Center.

### STRENGTH TRAINING II

**0871**

**Semester/0.5 credit**

**Grade 10, 11, 12**

*Prerequisite: Successful completion of Strength Training I*

This course will consist of classroom and weight room instruction and is designed for the advanced strength training participant who has already taken Strength Training I. This high-intensity class will primarily involve strength training with free weights. This course will include periodic classroom instruction on the principles of program design and the implementation of a personal weight lifting program. 30% of the class time will be spent in the classroom and 70% will be spent in the Fitness Center.

### LIFE GUARDING/FIRST AID

**0872**

**Semester/0.5 credit**

**Grade 10, 11, 12**

This course offers American Red Cross certification in the areas of First Aid, Cardiopulmonary Resuscitation for the Professional Rescuer, and Lifeguarding. Students receive theory and practical application of principles regarding safety and the prevention of accidents. In addition, students learn standard first aid skills, including CPR. The program also focuses on the knowledge and application of skills required by individuals to develop effective lifeguard systems around swimming pools. Students who choose this course must be able to swim to a depth of 12 feet to retrieve a 10 pound brick. **Students must also be able to complete 20 lengths of the pool in less than 12 minutes. This course is for above-average swimmers.** Students who successfully complete this course will receive certification for lifeguarding and First Aid (valid 3 years), and CPR for the Professional Rescuer (valid 1 year).

Note: Course cost for American Red Cross administrative fee is approximately \$70.00.

### CARDIO TRAINING

**0892**

**Semester/0.5 credit**

**Grade 10, 11, 12**

This course will consist of cardiovascular and flexibility training for students. The skills of jogging and running will be developed during the outdoor days of class. During indoor classes, jogging, running, circuit training, and cardiovascular activities will also be developed. The gym, fitness center, track, fields, and classrooms will be utilized for training.

### NETS

**0893**

**Semester/0.5 credit**

**Grade 10, 11, 12**

This course will consist primarily of net type games in physical education and sports. The net games and sports will include, but are not limited to: tennis, badminton, pickle ball, and volleyball.

### **RECREATIONAL PHYSICAL EDUCATION**

**0895**

**Semester/0.5 credit**

**Grade 10, 11, 12**

This course will offer recreational physical activity and games. These modules will be combined with walking and low impact activities. Recreational games will include: horseshoes, bocci, Frisbee golf, lawn games, shuffle board, badminton, and bowling.

### **CIRCUIT TRAINING**

**0874**

**Semester /0.5 credit**

**Grade 10, 11, 12**

This course offers an introduction to lifetime, fitness club best practices. Each class will include stretching, cardio, and basic muscular strengthening. Weight training will utilize activities and machines typically found at local athletic clubs. This course will not include heavy free weight lifting (no squatting or heavy free weights). The class will instruct students how to work out in 60 minutes or less. The 60 minutes or less will give the student a total body work out, the way many people do when they go to local gyms. This class is primarily for students interested in healthy body fitness not power lifting for contact sports.

### **YOGA**

**0875**

**Semester/ 0.5 credit**

**Grade 10, 11, 12**

This course will be rooted in the foundational principles of yoga for students who are new to yoga or anyone who wishes to learn the beginning principles. The course will build slowly and logically to introduce standing poses, forward extensions, twistings, back extensions, and inversions. The course will then move on to foundational principles that set the stage for a life-long endeavor in yoga. This includes a broad range of movements along with a developing awareness of the body, mind, and breath.

### **ADVANCED TEAM SPORTS**

**0671**

**Semester/0.5 credit**

**Grade 11, 12**

This course is designed for advanced physical education athletes/students. This course provides an opportunity for students to perform in a variety of competitive sports. It is appropriate for students who are team sports oriented, including but not limited to: football, soccer, frisbee, basketball, hockey, handball, lacrosse, softball, volleyball, and tennis. Various other vigorous team activities may be supplemented depending on space availability. This is a coed class that is offered to 11<sup>th</sup> and 12<sup>th</sup> grade students.

### **PHYSICAL EDUCATION SENIOR LEADER**

**0771**

**Semester/ 0.5 credit**

**Grade 12**

This course is for seniors who plan on teaching or coaching in the future. The course will consist of assisting a P.E. teacher in his/her daily P.E. class. The students will learn how to set up for activities keeping safety in mind. The students will have the opportunity to co-teach activities and lessons throughout the semester. The course will occur congruently with Introduction to Phys Ed, Rec PE, Circuit Training, Aquatics, Lifeguarding, and/or General PE. This course needs teacher/administrative approval. Maximum of 1 student per teacher, per period.

## **ENGLISH**

The mission of the Marple Newtown High School English Department incorporates a program of study that enables all learners to acquire the knowledge and skills to become productive, responsible, literate citizens who have developed an understanding and appreciation of the role of English in a rapidly growing technological society. The program of study includes English in grades 9 through 12 of varying levels that incorporates Advanced and College Preparatory courses along with interdisciplinary courses and electives. All students at Marple Newtown High School are expected to successfully complete English each year in grades 9 through 12, accumulating a minimum of 4.0 credits required for graduation.

### **ENGLISH DEPARTMENT RECOMMENDED SEQUENCE OF COURSES**

The following courses fulfill English graduation requirements.

<b>Grade 9</b>	<b>Grade 10</b>	<b>Grade 11</b>	<b>Grade 12</b>
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#### ***ADVANCED PLACEMENT/HONORS***

<b>English 9:</b> Literary Genres - Honors (1410)	<b>English 10:</b> World Literature I - Honors (1510)	<b>English 11:</b> AP Language. & Comp (1614) American Literature - Honors (1610)	<b>English 12:</b> AP Lit & Composition (1715) World Lit II - Honors (1710)
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#### ***COLLEGE PREPARATORY***

<b>English 9:</b> Literary Genres (1420, 1430, 1440)	<b>English 10:</b> World Literature I (1520, 1530, 1540)	<b>English 11:</b> American Literature (1620, 1630, 1640)	<b>English 12:</b> World Lit II (1720, 1730)
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#### ***ELECTIVES***

Electives are offered for one semester and satisfy elective credits.

They do not fulfill English graduation requirements.

#### **Grades 9, 10, 11, 12**

Poetry (1870)  
Theater as Living Art (1871)  
Cinema Development and Appreciation (1872)  
Speech (1873)  
Journalism (1874)  
Creative Writing (1875)  
Ancient Greek Literature and Beyond (1876)  
Horror Literature through Film, Art, and Music (1877)  
Women's Literature of the Americas (1878)

#### **Grades 10, 11, 12**

Skills for Test Taking: Reading/Writing (1884)

## CORE ENGLISH COURSES

### ENGLISH 9: LITERARY GENRES

(NCAA approved course)

1410\*, 1420, 1430, 1440+

Year/1.0 credit

Grade 9

This comprehensive program strengthens reading, writing, listening, and speaking skills. Students read selected works in various genres including novels, plays, short stories, and poetry. Vocabulary and SAT test-taking strategies are emphasized.

+ Enrollment in this course requires an IEP.

### ENGLISH 10: WORLD LITERATURE I

(NCAA approved course)

1510\*, 1520, 1530, 1540+

Year/1.0 credit

Grade 10

Students study world literature, including selections from Old English, Middle English, Shakespeare, Modern, and 21<sup>st</sup> Century. Listening, speaking, vocabulary skills, SAT test-taking skills, and research are emphasized. Writing focuses on the skills needed to write clearly and logically. Students will be introduced to the fundamentals of research resulting in a required oral presentation.

### ENGLISH 11: AMERICAN LITERATURE

(NCAA approved course)

1610\*, 1620, 1630, 1640+

Year/1.0 credit

Grade 11

Through the reading and analysis of a variety of American literary works, students will learn the evolution of American literature from its inception to present day. Composition, research, writing skills, vocabulary development, and SAT preparation are emphasized. The fundamentals of research are taught, including the development of a thesis. Successful completion of a major research paper is a requirement

**ENGLISH 12: WORLD LITERATURE II****(NCAA approved course)****1710\*, 1720, 1730, 1740+****Year/1.0 credit****Grade 12**

In this course, readings are representative of world literature and are arranged thematically. Various literary devices will be discussed, as they appear in a variety of works. Further development of reading skills, related vocabulary, and composition skills will be ongoing.

**READING STRATEGIES****1830****Semester/0.5 credit or Year 1.0 credit****Grade 9**

*Prerequisite: Students must meet Reading placement criteria.*

This course is designed for freshmen who need to improve overall reading skills. Phonics, comprehension, and fluency will be emphasized as needed. Study skills, textbook reading strategies, fiction and nonfiction reading, and writing will be taught. Groups are small so that individual attention and immediate feedback can be provided.

**READING SUPPORT****1841****Semester/0.5 credit or Year/1.0 credit****Grade 10, 11, 12**

*Prerequisite: Students are placed in reading support based on previously earned assessment data and teacher recommendation.*

Upper class students in need of additional reading instruction may be placed into Reading Support. Reading Support is designed for students who need to improve overall reading skills. The purpose of this course is to address areas of need for individual students, and the goal is for students to demonstrate an increase in understanding and performance.

**KEYSTONE LITERATURE REMEDIATION****1835****Semester/0.5 credit****Grade 11, 12**

*Prerequisite: Students are placed in Keystone Literature Remediation based on their performance on the state-required Keystone Literature Exam.*

This course is designed specifically for students who did not achieve the proficient level on the Keystone Literature Exam. The focus will be on intensive review of literary devices, elements, and vocabulary as well as test preparation strategies. Students may be re-enrolled in the course until proficiency is achieved on the Literature Keystone Exam. For the class of 2018 and all subsequent classes, students must score proficient on the Keystone Exam in order to meet MNHS graduation requirements. Students who do not score proficient will be required to pass a Keystone Remediation course. In addition to passing the coursework throughout the semester, a student must show growth on the Keystone Exam in order to pass the course.

**ENGLISH LANGUAGE LEARNERS I****1961****Year/1.0 credit****Grade 9, 10, 11, 12**

English Language Learners is a required course for non-native speakers of English who need to develop proficiency in English. Emphasis is placed on reading, writing, speaking, and listening skills at the basic level. Students must meet ELL entrance criteria to enroll in this course.

**ENGLISH LANGUAGE LEARNERS II****1962****Year/1.0 credit****Grade 9, 10, 11, 12**

English Language Learners is a required course for non-native speakers of English who need to develop proficiency in English. Students continue to focus on reading, writing, speaking, and listening skills at an intermediate level. Students must meet ELL entrance criteria to enroll in this course.

### **ENGLISH LANGUAGE LEARNERS III**

**1963**

**Year/1.0 credit**

**Grade 9, 10, 11, 12**

English Language Learners is a required course for non-native speakers of English who need to develop proficiency in English. Students in this course focus on in reading, writing, speaking, and listening skills at an independent level. Students must meet ELL entrance criteria to enroll in this course.

### **ENGLISH LANGUAGE LEARNERS SUPPORT**

**1964**

**Year/0.0 credit**

**Grade 9, 10, 11, 12**

English Language Learners is a required course for non-native speakers of English who need to develop proficiency in English. This course is offered in conjunction with a required English class. Support is embedded for reading, writing, speaking, and listening skills during the class instruction. Students must meet ELL entrance criteria to enroll in this course.

## **ENGLISH ELECTIVES**

The English Department offers a wide variety of electives designed to encourage students to explore areas of interest in communication and literature. These courses do not meet the basic credit requirements for English, but do satisfy elective credit. Elective courses are open to students in grades 9, 10, 11, and 12 with the exception of Skills for Test Taking. This elective will only be open to grades 10, 11, and 12.

### **POETRY**

**(NCAA approved course)**

**1870**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

Drawing on sources ranging from the classic and formal to the contemporary, students will practice poetic techniques and will critically analyze a variety of poems.

### **THEATER AS LIVING ART**

**1871**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

Students selecting this course will learn that “the play’s the thing.” By studying, writing, designing, and performing classic and contemporary plays, as well as original dramas of their own, students will become proficient in the dramatic arts.

### **CINEMA DEVELOPMENT AND APPRECIATION**

**1872**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

Film is a major form of art/communication in the 21<sup>st</sup> Century, and this course enables students to study the development of cinema from its beginnings, as well as giving them the information and skills needed to watch, evaluate, and write about any movie of artistic merit. In addition to viewing film highlights and entire movies, students demonstrate their understanding of cinema through written movie critiques, tests, and independent projects.

### **SPEECH**

**(NCAA approved course)**

**1873**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

Students gain experience in common speaking forms, including persuasive, demonstrative, and informative speeches; interview techniques; debate; commercial presentation; and oral interpretation.

**JOURNALISM****(NCAA approved course)****1874****Semester/0.5 credit****Grade 9, 10, 11, 12**

Students receive training and practical experience in the various forms of journalistic writing. They will improve their journalistic writing through interpretive reporting, editorializing, planning, and writing.

**CREATIVE WRITING****(NCAA approved course)****1875****Semester/0.5 credit****Grade 9, 10, 11, 12**

Creative Writing is designed for students who wish to experiment in self-expression through writing. Writing emphasis is placed on imitating models, pre-writing techniques, examining various publishing venues, and exploring different forms. Students will study classic, modern, and contemporary writers, and their different styles. Students will write daily, keep a journal, participate in workshops, readings, and use the many styles of writing studied.

**ANCIENT GREEK LITERATURE AND BEYOND (NCAA approved course)****1876****Semester/0.5 credit****Grade 9, 10, 11, 12**

In this course, students will read and analyze two formative Greek works. Using those works as a starting point, students, through analyzing a variety of related works—including but not limited to novels, non-fiction, poetry, and art—will then understand how and why these works have “staying power.” Students will demonstrate their appreciation of these works through writing and oral presentations.

**HORROR LITERATURE THROUGH FILM, ART, AND MUSIC****1877****Semester/0.5 credit****Grade 9, 10, 11, 12**

This course will study the macabre of Horror and Gothic through many different mediums (text, film, art, music, etc). We will explore horror from the 18th - 21st centuries and see how the genre captures the pulse of our culture at particular historical moments. Additionally, students will discover, identify, and critique different horror genres in this semester course.

**WOMEN’S LITERATURE OF THE AMERICAS (NCAA approved course)****1878****Semester/0.5 credit****Grade 9, 10, 11, 12**

Focusing attention on the wealth of literature published by women of North, South, and Latin America, this course seeks to provide an opportunity for enriched study of the recurring themes present in 20<sup>th</sup> Century women’s literature. These include, but are not limited to, storytelling and folklore, roles within the family, concepts of beauty, and reactions to war. Students should recognize that this is a reading and discussion-intensive course, with both written and oral requirements.

**SKILLS FOR TEST TAKING: READING/WRITING****1884****Semester/0.5 credit****Grade 10, 11, 12**

This course is designed primarily for students who are college bound and need assistance in taking the SAT and/or ACT. Students can expect a study of high frequency words and reading comprehension techniques to aid in taking the Reading portion of the SAT. For the writing section, students will work with identifying sentence errors and improving sentences and paragraphs. In preparation for the ACT, students will work on usage and mechanics as well as rhetorical skills such as strategy, organization, and style. The goal of this course is to help students achieve higher scores on the PSAT, SAT, and ACT.

## ENGLISH ADVANCED PLACEMENT COURSES

### ENGLISH 11: ENGLISH LANGUAGE AND COMPOSITION - AP\*

(NCAA approved course)

1614\*

Year/1.0 credit

Grade 11

The Advanced Placement English Language and Composition course is designed to provide students with reading and writing activities to help them gain rhetorical and textual power, making them more alert to an author's purpose, the needs of an audience, the demands of the subject, and the resources of language, including but not limited to diction, syntax, and tone. Because of the demanding curriculum, students must bring to the course sufficient command of mechanical conventions and an ability to read and discuss prose. The three main components of the course are reading, writing, and research. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

### ENGLISH 12: LITERATURE AND COMPOSITION - AP\* (NCAA approved course)

1715\*

Year/1.0 credit

Grade 12

Students develop procedures for independent analysis of literary genres (novel, drama, short story, poetry, and prose). Readings are representative of world literature and are arranged thematically. Refinement of reading, composition, oral expression, and listening skills are accomplished by having each student complete a series of written analysis and initiatives. There is emphasis on expository writing as well as an opportunity for creative writing. Because of the demanding curriculum, students must bring to the course sufficient command of mechanical conventions and an ability to read and discuss prose. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

### ENGLISH COMPOSITION I/ENGLISH 100\*

(NCAA approved course)

1611\*

Year/1.0 credit

Grade 11, 12

Marple Newtown High School (MNHS), in collaboration with Delaware County Community College (DCCC), established a College in the High School Program. MNHS offers English Composition I/ENG100 due to its partnership with DCCC. The weighted course provides 1.0 MNHS credit and 3.0 DCCC credit hours and fulfills the English requirement in either grade 11 or 12.

This course reviews the principles of composition, including rhetoric, grammar and usage. It emphasizes critical thinking, the recursive nature of writing, the writing of analytical essays, and the application of information literacy skills.

Fee: Students are responsible for all course tuition, fees, and materials, such as textbooks. Please consult with a member of the CCAC to obtain more information.

## **SOCIAL STUDIES**

The mission in the Social Studies Department is to enable all students to learn the skills, acquire the knowledge, and develop the attitudes necessary to reach their full potential as citizens prepared to meet the challenges of a rapidly changing global society.

All students at Marple Newtown High School are expected to successfully complete Social Studies each year in grades 9 through 12, accumulating a minimum of 4.0 credits required for graduation. Social Studies also offers elective courses, which can be used to complete credit requirements for graduation or present challenging in-depth studies in a variety of areas. The following courses fulfill the Social Studies requirements for graduation.

### **SOCIAL STUDIES DEPARTMENT RECOMMENDED SEQUENCE OF COURSES**

The following courses fulfill Social Studies graduation requirements.

#### **Grade 9**

#### **Grade 10**

#### **Grade 11**

#### **Grade 12**

#### ***ADVANCED PLACEMENT/HONORS***

AP Human Geography (2415)  
World Civ and Cultures (2410)

AP World History (2515)  
AP European History (2516)  
H World Civ & Cultures II (2510)

AP United States (2615)  
H 20<sup>th</sup> Century America (2610)

AP Government (2715) H  
AP Macro/Micro Econ (2710)

#### ***COLLEGE PREPARATORY***

World Civilizations & Cultures  
(2420, 2430)

World Civilizations & Cultures II  
(2520, 2530)

20<sup>th</sup> Century America  
(2620, 2630)

Political and Economic Issues  
(2720, 2730)

#### ***ELECTIVES***

Electives are offered for one semester and satisfy elective credits.

They do not fulfill Social Studies graduation requirements.

#### **Grades 9, 10, 11, 12**

America's Civil Wars (2872)  
World War II and the Vietnam War (2873)  
International Relations (2874)  
The Civil Rights Movement (2875)  
America and Its Courts (2876)  
The Presidents as People (2877)  
Leadership and Character (2878)

#### **Grades 10, 11, 12**

Sociology (2870)  
Psychology (2871)

#### **Grades 11, 12**

AP Psychology (2810)

## CORE SOCIAL STUDIES COURSES

### WORLD CIVILIZATIONS & CULTURES I

(NCAA approved course)

2410\*, 2420, 2430

Year/1.0 credit

Grade 9

World Civilizations and Cultures I is designed to give students a greater understanding of global events and trends through the study of the interaction of world societies through the ages. Students will learn how human views of the world have changed over time and analyze the changing relationships between and among world civilizations. Beginning with an examination of the earliest civilizations, students will continue a chronological study of world history through the Middle Ages. The development of writing skills, analysis of primary sources, making comparisons, and effective teamwork will be emphasized.

Note: The honors level course offering is designed to prepare students for the 10<sup>th</sup> grade Advanced Placement courses. Additionally, a series of performance assessments are centered on the yearly National History Day theme. Each year there is a different theme, and students are required to participate in the history day project.

### WORLD CIVILIZATIONS & CULTURES II

(NCAA approved course)

2510\*, 2520, 2530

Year/1.0 credit

Grade 10

In year two of World Civilizations & Cultures, students will continue to develop their understanding of the world and the societies which populate it. Building on the study done in World Civilizations & Cultures I, students will continue the chronological study of world history from 1450 to the present. The development of writing skills, analysis of primary sources, making comparisons, and effective teamwork will be emphasized.

### 20TH CENTURY AMERICA

(NCAA approved course)

2610\*, 2620, 2630

Year/1.0 credit

Grade 11

This survey of 20<sup>th</sup> century American history begins with the foreign policy events at the dawn of the 20<sup>th</sup> century and continues through to the early years of the 21<sup>st</sup> century. Students will view history through political, social, and economic lenses and examine a variety of primary and secondary sources to provide a balanced perspective of 20<sup>th</sup> century American history.

## Social Studies

### **POLITICAL AND ECONOMIC ISSUES**

**(NCAA approved course)**

**2720, 2730**

**Year/1.0 credit**

**Grade 12**

Both government and economics are part of this 12<sup>th</sup> grade social studies requirement. The economic focus is on the many forces which interact in our effort to satisfy unlimited wants with limited economic resources. In the study of government, emphasis is placed on the way our political system works with an examination of the three branches of the federal government as well as state and local governments and the rights and responsibilities of citizenship.

## **SOCIAL STUDIES ELECTIVES**

These courses are not required but may be selected in order to fulfill elective course requirements necessary for graduation. Many of these courses give students background in areas in which they may have a career interest and will provide the student with critical thinking skills that will be necessary in their future.

### **SOCIOLOGY**

**(NCAA approved course)**

**2870**

**Semester/0.5 credit**

**Grade 10, 11, 12**

Sociology is the study of human beings and their relationships to others in society. Students examine human cultural heritage and its impact on individual personality and life style. Among the topics covered are social institutions, socialization, social stratification, and social change. Issues such as marriage and the family, crime and punishment, the population explosion, minority groups, and rural and urban living are part of the focus of the course.

### **PSYCHOLOGY**

**(NCAA approved course)**

**2871**

**Semester/0.5 credit**

**Grade 10, 11, 12**

The goal of this course is to help students develop a better understanding of human behavior. The theories and methods of psychologists are emphasized. Topics include: psychology as a science, how we learn and become who we are, the role of the brain, sensation and perception, and personality theories. Conducting experiments is an important component of the course.

### **AMERICA'S CIVIL WARS**

**(NCAA approved course)**

**2872**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

This course is offered to help students better understand the Revolutionary War and the Civil War. Topics covered will include the background and causes of each war. In studying the Revolutionary War, focus on the causes of the war will lead to the study of the Revolution in the North, then the Middle States, and finally the South. The course will conclude with the surrender at Appomattox Court House.

**WORLD WAR II and THE VIETNAM WAR** (NCAA approved course)  
**2873** Semester/0.5 credit Grade 9, 10, 11, 12

This course will cover America's involvement in World War II starting from the bombing of Pearl Harbor. The war will be studied from the viewpoint of the European theater, and the South Pacific theater. As students examine major battles, they will focus on the personalities of General Dwight D. Eisenhower and General Douglas MacArthur. The Vietnam War will be studied from the fall of Dienbienphu to the fall of Saigon. Attention will be given to "The Domino Theory" and how the war affected America at home.

**INTERNATIONAL RELATIONS** (NCAA approved course)  
**2874** Semester/0.5 credit Grade 9, 10, 11, 12

The topics of study for this course are taken from international problems that currently face the United States, our diplomats, and policy makers. Each topic is examined in terms of its historical background, the national interests of the various countries involved, and subsequent actions taken by those countries in light of their interests. A major goal is to understand the national interests of other countries so that the impact of the United States policy decisions on other peoples of the world can better be evaluated.

**THE CIVIL RIGHTS MOVEMENT** (NCAA approved course)  
**2875** Semester/0.5 credit Grade 9, 10, 11, 12

In this elective course, students will examine the struggle waged by Black Americans and their white allies against white supremacy and racial discrimination in the 1950's and 1960's. A wide variety of technology and authentic resources will bring the dynamics, achievements, and limitations of the civil rights movement to life.

**AMERICA AND ITS COURTS** (NCAA approved course)  
**2876** Semester/0.5 credit Grade 9, 10, 11, 12

This course introduces students to the components and processes of the criminal and civil justice systems in the United States. Topics will include the history, structure, practice, and philosophies of these justice systems at both the state and federal levels and how they shape modern civil society. The intensive examination of courtroom practice in state-level criminal and civil proceedings lends itself to preparing students for participation in the Marple Newtown High School Mock Trial Team.

**THE PRESIDENTS AS PEOPLE** (NCAA approved course)  
**2877** Semester/0.5 credit Grade 9, 10, 11, 12

Who were the fascinating individuals who helped shape America's past? Forty-three of these individuals have been President of the United States. Using biographical information, primary sources, visuals, and a variety of online resources, students will learn about the people who held this office, and the history of the country as it pertained to each president studied.

## LEADERSHIP AND CHARACTER

2878

Semester/0.5 credit

Grade 9, 10, 11, 12

Leadership and Character is designed to give students the opportunity to analyze their responsibilities and commitments in the context of leadership as described in this course. Students will explore the concept of leadership and develop the skills necessary to become successful students and members of society. The course includes the study of leadership through psychology, sociology, and biography, as well as the application of leadership theories, concepts, and skills to develop students' own leadership potential. Students will complete personal and leadership self-assessments, explore values, and apply leadership skills through course activities.

## SOCIAL STUDIES ADVANCED PLACEMENT COURSES

### HUMAN GEOGRAPHY - AP\*

(NCAA approved course)

2415

Year/1.0 Credit

Grade 9

The AP Human Geography course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students learn to employ special concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. There are no prerequisites for AP Human Geography; however, students entering the AP Human Geography course should be capable of reading and comprehending texts written at the college level. Students should be able to summarize and evaluate textual information, read and interpret maps and graphic data, perform basic mathematical operations, and possess fundamental skills in composition and research.

### WORLD HISTORY - AP\*

(NCAA approved course)

2515\*

Year/1.0 credit

Grade 10

The purpose of the AP World History course is to develop a greater understanding of the evolution of global processes and contacts in different types of human societies. The course highlights the nature of changes in global frameworks and their causes and consequences, as well as comparisons among major societies. AP World History offers an approach that lets students "do history" by guiding them through the steps a historian would take in analyzing historical events and evidence worldwide. The course offers balanced global coverage, with Africa, the Americas, Asia, Europe, and Oceania all represented. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

### MODERN EUROPE - AP\*

(NCAA approved course)

2516\*

Year/1.0 credit

Grade 10

Advanced Placement Modern Europe presents a detailed study of the history of Europe from 1450 to present. Students will analyze the social, intellectual, and political transition of Europe to the present while tracing significant themes of modern European history. Work in this course requires historical analyses of supplementary readings. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

## Social Studies

### UNITED STATES HISTORY - AP\*

(NCAA approved course)

2615\*

Year/1.0 credit

Grade 11

In this chronological survey of US history, students discover how America developed from the earliest years of European settlement to the present using the tools of historians. Exposure to a rich variety of primary and secondary sources, interactive lessons, and a wide range of writing and technology are part of the AP US History experience. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

### MACRO/MICRO ECONOMICS - AP\*

(NCAA approved course)

2710\*

Year/1.0 credit

Grade 12

This course provides students with the foundational tools for economic thinking. It includes a study of Microeconomics, which examines actions taken by individual consumers and producers within economic systems. Students analyze how these stakeholders enter into business decisions, including market competition, government oversight, and production of goods and services.

Macroeconomics, developed in the 20th Century as a response to the Great Depression, examines our complex domestic and global economic systems as a whole. It allows students to observe and assess the health of an economy, how governmental policies attempt to create economic stability and growth, and the functioning and interdependence of international trade and finance. Students will be prepared to register for the Advanced Placement Exams in both Microeconomics and Macroeconomics.

### U. S. GOVERNMENT & POLITICS - AP\*

(NCAA approved course)

2715\*

Year/1.0 credit

Grade 12

This year-long Advanced Placement course is an in-depth examination of the American political system along with a comparative study of selected world governments. Major themes include: our constitutional foundations, political beliefs and behaviors, political parties and interest groups, institutions and policy processes of national government, and civil rights and civil liberties. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

### PSYCHOLOGY - AP\*

(NCAA approved course)

2810\*

Year/1.0 credit

Grade 11, 12

Prerequisite: Successful completion of Psychology (2871)

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam. Students in 11<sup>th</sup> and 12<sup>th</sup> grade may take this elective.

Note: As an elective, this course cannot be taken in place of any Social Studies course required for graduation.

# MATHEMATICS

At Marple Newtown High School all students are expected to successfully complete courses in Algebra I, Geometry, and Algebra II. As these courses serve as a foundation for future mathematical inquiry and understanding, successful completion of one or more of these courses serves as a prerequisite to enrollment in math elective courses.

All courses expect students to have a graphing calculator for daily classroom use.  
A TI-84 Plus C or a TI-84 Plus is recommended.

## MATH DEPARTMENT RECOMMENDED SEQUENCE OF COURSES

The following courses fulfill Mathematics graduation requirements.

Grade 9	Grade 10	Grade 11	Grade 12
<b>ADVANCED PLACEMENT/HONORS</b>			
Honors Geometry (3510)	Honors Algebra II/Trigonometry (3610)	Honors Pre-Calculus (3710)	Honors Discrete Math (3711)
Honors Algebra II/Trig (3610)	Honors Pre-Calculus (3710)	Honors Discrete Math (3711)	AP Calculus AB (3713)
	Honors Discrete Math (3711)	AP Calculus AB (3713)	AP Calculus BC (3714)
		AP Calculus BC (3714)	
<b>COLLEGE PREPARATORY</b>			
Algebra I (3420, 3430)	Geometry (3520, 3530, 3541)	Algebra II/Trigonometry (3620)	Pre-Calculus (3720)
Algebra I – Part A (3440)	Algebra I – Part B (3540)	Algebra II (3630, 3640)	

## ELECTIVES THAT FULFILL THE GRADUATION REQUIREMENT

### Grades 9, 10, 11, 12

AP Computer Science Principles (3717)  
Math for Life and Work (3724)  
Personal Finance (3725)

### Grades 10, 11, 12

Pre-Calculus (3710, 3720)  
Honors Discrete Math: Intro to Calculus (3711)  
AP Computer Science A (3715)  
Trigonometry (3721)  
Introduction to Statistics (3722)  
Honors Statistics (3723)  
Logic (3726)  
AP Statistics (3712)

### ELECTIVES

Electives are offered for one semester and satisfy elective credits.  
They do not fulfill Mathematics graduation requirements.

### Grades 9, 10, 11, 12

Introduction to Java Programming (3716)  
Introduction to Python Programming (3770)

### Grades 10, 11, 12

Skills for Test Taking: Math (3773)

## CORE MATHEMATICS COURSES

### ALGEBRA I

**(NCAA approved course)**

**3420, 3430**

**Year/1.0 credit**

**Grades 9, 10, 11, 12**

This course will cover the specified eligible content for Algebra I as outlined by the Pennsylvania Department of Education. The following anchors will be addressed: Operations with Real Numbers and Expressions, Linear Equations, Linear Inequalities, Functions, Coordinate Geometry, and Data Analysis.

### ALGEBRA I – PART A

**(NCAA approved course - .5 credit)**

**3440+**

**Year/1.0 credit**

**Grade 9**

This course is designed for students who are performing below grade level in mathematics and need additional support as they begin Algebra. This course will begin to cover the specified eligible content for Algebra I as outlined by the Pennsylvania Department of Education. The following anchors will be addressed: Operations with Real Numbers and Expressions, Linear Equations, and Linear Inequalities.

+ *Enrollment in this course requires an IEP.*

### ALGEBRA I – PART B

**(NCAA approved course - .5 credit)**

**3540+**

**Year/1.0 credit**

**Grade 10**

This course is designed to follow Algebra I Part A and it will cover the remaining specified eligible content for Algebra I as outlined by the Pennsylvania Department of Education. The three anchors covered in Part A – Operations with Real Numbers and Expressions, Linear Equations, and Linear Inequalities – will be reviewed before addressing the following anchors: Functions, Coordinate Geometry, and Data Analysis.

+ *Enrollment in this course requires an IEP.*

### GEOMETRY

**(NCAA approved course)**

**3510\*, 3520, 3530, 3541+**

**Year/1.0 credit**

**Grades 9, 10, 11, 12**

*Prerequisite: Successful completion of Algebra I.*

Each Geometry course will cover the specified eligible content for Geometry as outlined by the Pennsylvania Department of Education. The following anchors will be addressed: Properties of Circles, Spheres and Cylinders, Properties of Polygons and Polyhedra Congruence, Similarity and Proofs, Coordinate Geometry and Right Triangles, Measurements of Two-Dimensional Shapes and Figures, and Measurements of Three-Dimensional Shapes and Figures.

### ALGEBRA II/TRIGONOMETRY

**(NCAA approved course)**

**3610\*, 3620**

**Year/1.0 credit**

**Grades 9, 10, 11, 12**

*Prerequisites: Successful completion of Algebra I and Geometry.*

Each Algebra II course will cover the specified eligible content for Algebra II as outlined by the Pennsylvania Department of Education. The following anchors will be addressed: Operations with Complex Numbers, Non-Linear Expressions, Non-Linear Equations, Patterns, Relations, and Functions, Applications of Functions, and Data Analysis. There will be a unit on trigonometry in this course, using both a right triangle and a unit circle basis.

## ALGEBRA II

3630, 3640+

Year/1.0 credit

(NCAA approved course)

Grades 9, 10, 11, 12

This course will cover the specified eligible content for Algebra II as outlined by the Pennsylvania Department of Education. The following anchors will be addressed: Operations with Complex Numbers, Non-Linear Expressions, Non-Linear Equations, Patterns, Relations, and Functions, Applications of Functions, and Data Analysis.

## MATHEMATICS ELECTIVE COURSES (FULFILL REQUIREMENT)

### PRE-CALCULUS

3710\*, 3720

Year/1.0 credit

(NCAA approved course)

Grades 10, 11, 12

Prerequisite: Successful completion of Algebra II/Trigonometry.

Each pre-calculus course introduces students to the vocabulary of functions. Students learn concepts including: domain, range, symmetry, continuity, end behavior, extrema, and periodicity. Functions, including polynomial, rational, exponential, logarithmic, and trigonometric, are covered to develop fundamental analysis skills.

### DISCRETE MATH: INTRO TO CALCULUS - HONORS\* (NCAA approved course)

3711\*

Year/1.0 credit

Grades 10, 11, 12

Prerequisite: Successful completion of a Pre-Calculus course.

The topics in the Discrete Math course cover content areas not normally covered in any other mathematics course. **Part I** is the *Mathematics of Social Choice*: voting, weighted voting and power, fair division, and apportionment methods. **Part II** is *Management Science*: Graph theory, shortest network problems and scheduling, using directed graphs, and critical paths. **Part III** topics are related to *Growth and Symmetry*: Fibonacci numbers, the Golden Ratio, Population Growth, Symmetry and transformational geometry, and Fractal Geometry. **Part IV** is an *Introduction to Calculus* that includes graphs of polynomial and rational functions, limits, the derivative, and techniques of differentiation.

### TRIGONOMETRY

3721

Semester/0.5 credit

(NCAA approved course)

Grades 10, 11, 12

Prerequisite: Successful completion of Algebra II.

This trigonometry course covers relationships of angles and sides in right triangles. The concept of the unit circle will also be used to cover the trigonometric ratios. The Law of Sines and the Law of Cosines will both be covered. The graphing calculator is used extensively throughout this course.

### INTRODUCTION TO STATISTICS

3722

Semester/0.5 credit

(NCAA approved course)

Grades 10, 11, 12

Prerequisite: Successful completion of Algebra II or Algebra II/Trigonometry.

This statistics course covers the basics of data collection, descriptive statistics, bivariate statistics, probability, random variables, and the normal distribution.

## STATISTICS – HONORS\*

(NCAA approved course)

3723\*

Year/1.0 credit

Grades 10, 11, 12

Prerequisite: Successful completion of Algebra II or Algebra II/Trigonometry. Introduction to Statistics is **NOT** a prerequisite to Statistics.

The content of this course is intended to introduce students to major components of collecting, analyzing, and drawing conclusions from data. Students will be exploring data, planning a study, and conducting an experiment, while also investigating patterns and statistical inferences.

## MATH FOR LIFE AND WORK

3724

Semester/0.5 credit

Grades 9, 10, 11, 12

This course will explore fundamental math skills, using practical applications in everyday life and specific industries. This course will show the importance of understanding concepts, including percentages, in daily living. This course will show the importance of measurement and geometric relationships in various trades. Students will gain confidence with the math needed in their personal lives and future professional careers. Students planning to take the ASVAB or attend a post-graduate technical school are encouraged to consider this course as a mathematics elective.

Student athletes are reminded Math for Life and Work does not have NCAA approval.

## PERSONAL FINANCE

3725

Semester/0.5 credit

Grades 9, 10, 11, 12

Prerequisite: Successful completion of Algebra I.

The essentials of quantitative literacy needed to be an intelligent consumer including the principles of investing, interest, and debt will be covered. Students will learn how to use the Finance application on the TI calculators. Life-long skills of money management will be presented.

## LOGIC

3726

Semester/0.5 credit

Grades 10, 11, 12

Prerequisite: Successful completion of Algebra II or Algebra II/Trigonometry.

This course will study the science of reasoning and argumentation. Training ourselves to construct effective arguments and to spot weak ones finds usefulness in every program of student and everyday life. Effective reasoning steers one in the direction of truth and away from falsehood. Students will learn how to construct and recognize valid deductive arguments, examine categorical propositions and their components including Venn Diagrams and Truth Tables. Logic instills a sensitivity for the formal component in language, which is necessary to exercise clear, effective, and meaningful communication.

## MATHEMATICS ELECTIVE COURSES (DO NOT FULFILL REQUIREMENT)

### INTRODUCTION TO JAVA PROGRAMMING (NCAA approved course) 3716 Semester/0.5 credit Grades 9, 10, 11, 12

This course provides students with an opportunity to develop their basic programming skills using the Java programming language. This course is an introduction to the Java programming language for students with an interest in computer science. The course is designed for students with and without prior programming experiences and it teaches the fundamentals of the Java language. Through this course, students will learn Java primitive and non-primitive data types, control flow structures, built in class libraries and object-oriented programming concepts such as classes and objects, and how to create and use elementary Graphic User Interfaces (GUIs). This class is the prerequisite for the AP Computer Science A course.

*Prerequisites:* Successful completion of both Algebra I and Geometry.

*Note:* Students may enroll concurrently in Geometry and Java Programming

### INTRODUCTION TO PYTHON PROGRAMMING (NCAA approved course)

3770 Semester/0.5 credit Grades 9, 10, 11, 12

This course introduces the Python programming language for students with or without prior programming experience. The course will identify data types, control flow, object-oriented programming and graphical user interface driven applications. The curriculum emphasizes students' understanding of the world's fastest growing and most popular programming language used by software engineers, analysts, data scientists and machine learning engineers alike.

### SKILLS FOR TEST TAKING: MATH

3773 Semester/0.5 credit Grades 10, 11, 12

A semester course designed to help students improve their aptitude and achievement test scores by increasing math skills, improving accuracy and developing logical reasoning. The curriculum emphasizes strengthening students' skills in preparation for the mathematics subtests on the SAT and ACT.

## MATHEMATICS ADVANCED PLACEMENT COURSES

### STATISTICS - AP\*

(NCAA approved course)

3712\*

Year/1.0 credit

Grades 10, 11, 12

Prerequisite: Successful completion of Algebra II/Trigonometry.

This AP course is intended to introduce students to the major components of collecting, analyzing, and drawing conclusions from data. Students will be exposed to exploring data, planning a study, conducting an experiment, anticipating patterns, and statistical inference. Emphasis will also be placed on hypothesis testing and tests comparing two parameters. The topics covered are those outlined by the College Board. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

Note: This may be taken concurrently with Discrete Math, Pre-Calculus, Calculus, or Computer Science.

### CALCULUS AB - AP\*

(NCAA approved course)

3713\*

Year/1.0 credit

Grades 11, 12

Prerequisite: Successful completion of a Pre-Calculus course.

The content of this course includes functions, graphs, limits, derivatives, and integrals. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam. This course is roughly equivalent to a first-semester college Calculus course.

### CALCULUS BC - AP\*

(NCAA approved course)

3714\*

Year/1.0 credit

Grades 11, 12

Prerequisite: Successful completion of Honors Discrete Math: Intro to Calculus is strongly suggested.

This course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. Calculus BC is an extension of Calculus AB. Common topics in the two AP Calculus courses require a similar depth of understanding. The additional content in this course includes polynomial approximations and series. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam. This course is roughly equivalent to both first and second semester college Calculus courses.

### COMPUTER SCIENCE A - AP\*

(NCAA approved course)

3715\*

Year/1.0 credit

Grades 10, 11, 12

Prerequisites: Successful completion of Introduction to Java Programming.

This AP course is offered to those students with excellent problem-solving ability and a keen interest in computer science as a career. The focus of this course is to provide students with a conceptual background in computer science. The major emphasis is on programming methodology, algorithm design, and object-oriented programming in the Java language. This course prepares a student for advanced placement in a college computer science program by means of the Advanced Placement Exam. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

Note: This may be taken concurrently with H Discrete Math: Intro to Calculus, Pre-Calculus, Calculus, or Statistics.

## AP COMPUTER SCIENCE PRINCIPLES

(NCAA approved course)

3717

Year/1.0 credit

Grades 9, 10, 11, 12

*Prerequisite: Successful completion of Algebra II/Trigonometry*

AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. This course will give students the opportunity to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. This course is designed to appeal to a broader audience, instilling the ideas and practices of computational thinking, and inviting students to understand how computing changes the world. Students will develop innovative computational artifacts using the same creative processes that artists, writers, computer scientists, and engineers use to bring ideas to life. This new AP Computer Science Principles course is complementary to AP Computer Science A. Students can take these courses in any order or at the same time, as schedules permit.

## MATHEMATICS SUPPORT COURSES

### ALGEBRA I KEYSTONE REMEDIATION

3835

Semester/0.5

Grades 9, 10, 11, 12

*Prerequisite: Students are placed in Algebra I Keystone Remediation based on their performance on the state-required Keystone Algebra I Exam.*

This course is designed specifically for students who did not achieve the proficient level on the Algebra I Keystone Exam. Students may be re-enrolled in this course until proficiency is achieved on the Algebra I Keystone Exam. For the class of 2018 and all subsequent classes, students must score proficient on the Keystone Exam in order to meet MNHS graduation requirements. Students who do not score proficient will be required to pass a Keystone Remediation course. In addition to passing the coursework throughout the semester, a student must show growth on the Keystone Exam in order to pass the course.

## **SCIENCE**

The mission of the Marple Newtown High School Science Department is to provide all students with a program of study that will enable them to acquire the knowledge and skills to understand the nature of Science, become scientifically literate citizens, and to develop an understanding and appreciation of the role of science and technology in society. This program includes courses in Integrated Science, Biology, Chemistry, Physics, Environmental Science, Forensics, Anatomy and Physiology, and Wildlife Conservation..

### **SCIENCE DEPARTMENT RECOMMENDED SEQUENCE OF COURSES**

The following courses fulfill Science graduation requirements.

<b><u>Grade 9</u></b>	<b><u>Grade 10</u></b>	<b><u>Grade 11</u></b>	<b><u>Grade 12</u></b>
<b><i>ADVANCED PLACEMENT/HONORS</i></b>			
Honors Integrated Science (4410) Honors Biology (4510) Pre-AP Biology (4511)	Honors Biology (4510) Honors Chemistry (4610) Pre-AP Biology (4511)	Honors Chemistry (4610) Honors Physics (4710) AP Biology (4515)	Honors Physics (4710) AP Biology (4515) AP Chemistry (4615) AP Environmental (4616) AP Physics (4715)
<b><i>COLLEGE PREPARATORY</i></b>			
Integrated Science (4420, 4430)	Biology (4520, 4530)	Chemistry (4620, 4630)	Physics (4720, 4730)

### ***ELECTIVES***

Electives are offered for one semester and can fulfill the 7<sup>th</sup> credit requirement for Math/Science.

**Grades 10, 11, 12**  
Wildlife Conservation (4870)

**Grades 11, 12**  
Environmental Science (4871)  
Forensic Science (4872)  
Human Body Systems (4873)  
**Human Body Systems is a full-year course**

## SCIENCE CORE COURSES

### INTEGRATED SCIENCE

(NCAA approved course)

4410\*, 4420, 4430

Year/1.0 credit

Grade 9

Integrated Science is an introductory high school science course designed for 9th graders bringing together elements of several science disciplines. The course will introduce the foundational, key concepts and skills in Physical Science, Earth Science, and Ecology necessary for subsequent studies in Biology and Chemistry.

### PRE-AP BIOLOGY

(NCAA approved course)

4411\*

Year/1.0 credit

Grade 9, 10

Pre-AP Biology sparks student motivation and critical thinking about our living world as they engage in real-world data analysis and problem solving. Through the Areas of Focus, students engage deeply with science practices to construct and refine their biological knowledge and strengthen their cross-disciplinary reading, writing, and mathematical skills as they analyze data. Pre-AP Biology fosters student growth as they make meaningful connections among the structures, processes, and interactions that exist within and across living systems-from cells to ecological communities. Pre-AP Biology motivates students to be active participants in analyzing real-world phenomena and to collaborate productively with their peers in dialogue, investigations, and problem solving.

### BIOLOGY

(NCAA approved course)

4510\*, 4520, 4530

Year/1.0 credit

Grade 10

Prerequisite: Successful completion of an Integrated Science course

Each Biology course will cover the specified eligible content as outlined by the Pennsylvania Department of Education. The following eight anchors will be addressed: biochemistry, ecology, evolution, bioenergetics, homeostasis, transport, cells, and genetics.

### CHEMISTRY

(NCAA approved course)

4610\*, 4620, 4630

Year/1.0 credit

Grade 11

Prerequisite: Successful completion of a Biology course. Recommended: A

Geometry course (can be taken concurrently).

Chemistry is the science concerned with the composition, behavior, structure, and properties of matter, as well as the changes matter undergoes during chemical reactions. Studied topics include atomic structure and bonding, chemical formulas, solutions, and energy transformations.

### PHYSICS

(NCAA approved course)

4710\*, 4720, 4730

Year/1.0 credit

Grade 12

Prerequisite: Successful completion of a Chemistry course.

Recommended: For the honors level course offering, Algebra II - Trigonometry, (can be taken concurrently) and for the college preparatory course offering, Algebra II (can be taken concurrently).

Physics is the study of matter, energy, and the interactions between them. Unifying fundamental concepts are developed which tie together seemingly unrelated observations. Topics that are studied include the nature of science, motion, forces, gravity, momentum, energy, static and current electricity, magnetism, and waves.

## SCIENCE ADVANCED PLACEMENT COURSES

*Prerequisites: Successful completion of Integrated Science, Biology, and Chemistry courses.*

### **BIOLOGY - AP\***

**(NCAA approved course)**

**4515\***

**Year/1.5 credits**

**Grade 11, 12**

Each Biology course will cover the specified eligible content as outlined by the Pennsylvania Department of Education. The following eight anchors will be addressed: biochemistry, ecology, evolution, bioenergetics, homeostasis, transport, cells, and genetics. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

### **CHEMISTRY - AP\***

**(NCAA approved course)**

**4615\***

**Year/1.5 credits**

**Grade 12**

A course covering advanced topics from Chemistry. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

### **ENVIRONMENTAL SCIENCE - AP\***

**(NCAA approved course)**

**4616\***

**Year/1.5 credits**

**Grade 12**

A course offering advanced topics from Earth Science, Biology, and Chemistry. Environmental Science is interdisciplinary within the realm of science and aims to provide students with the scientific principles, concepts, and methodologies required to understand the natural world and their place in it. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

### **PHYSICS I - AP\***

**(NCAA approved course)**

**4715\***

**Year/1.5 credits**

**Grade 12**

*Recommended: Calculus AB or Calculus BC (can be taken concurrently)*

*Prerequisite: Honors Physics*

A course covering advanced topics from Physics. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

## SCIENCE ELECTIVES

**These electives, with the exception of Biology Keystone Remediation, can fulfill the 7<sup>th</sup> credit requirement for Math/Science**

### **WILDLIFE CONSERVATION**

**4870**

**Semester/0.5 credit**

**Grade 10, 11, 12**

*Prerequisite: Successful completion of Biology*

Principles of ecology are applied to population and habitat management towards wildlife conservation. In this course, students learn about local and global issues in conservation and the pathways humans use to resolve these issues throughout the world. The effects of natural resource use and climate change on wildlife are emphasized.

## ENVIRONMENTAL SCIENCE

(NCAA approved course)

4871

Semester/0.5 credits

Grade 11, 12

Prerequisites: The successful completion of three 1-credit science courses OR the completion of two required 1-credit science courses and enrollment in the third 1-credit required science course.

Note: This course cannot replace a required science course.

Environmental Science is a course designed to provide students with the content and skills needed to identify and analyze environmental problems and to examine solutions to these problems. Course content will include food and water resources, energy efficiency, and renewable energy alternatives, pollution, and waste management.

## FORENSIC SCIENCE

(NCAA approved course)

4872

Semester/0.5 credits

Grade 11, 12

Prerequisites: The successful completion of three 1-credit science courses OR the completion of two required 1-credit science courses and enrollment in the third 1-credit required science course.

Note: This course cannot replace a required science course.

Forensic science is the application of basic biological, chemical, and physical science principles to the purpose of criminal justice. Major themes of study in this course include pathology, chemical analysis of substances, biological fluids, trace evidence, DNA, fingerprints, impression evidence, hand-writing analysis, and forensic psychiatry/psychology.

## HUMAN BODY SYSTEMS

(NCAA approved course)

4870

Year/1.0 credit

Grade 11, 12

Prerequisite: Successful completion of Biology and Chemistry

Recommended: Earned an A in a College Prep Biology and an A College Prep Chemistry OR successful completion of Honors Biology and Honors Chemistry

Through this Project Lead the Way (PLTW) course, students examine the interactions of body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions, such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal model, work through interesting real-world cases, and often play the role of biomedical professionals to solve medical mysteries. Students practice problem solving with structured activities and progress to open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills.

## BIOLOGY KEYSTONE REMEDIATION

4835

Semester/0.5 credits

Grade 10, 11, 12

Prerequisite: Students are placed in Biology Keystone Remediation based on their performance on the state-required Keystone Biology Exam.

This course is designed specifically for students who did not achieve the proficient on the Keystone Biology Exam. The focus will be on intensive review of biochemistry, ecology, evolution, bioenergetics, homeostasis, transport, cells, and genetics as well as test preparation strategies. Students may be re-enrolled in this course until proficiency is reached. For the class of 2018 and all subsequent classes, students must score proficient on the Keystone Exam in order to meet MNHS graduation requirements. Students who do not score proficient will be required to pass a Keystone Remediation course. In addition to passing the coursework throughout the semester, a student must show growth on the Keystone Exam in order to pass the course.

## **WORLD LANGUAGE**

**Speak a World Language–Say “Hello” to the World!** In the small, interdependent world of today, the ability to communicate with those with whom around the globe has become a survival skill. Equipped with second language skills, students will greatly expand their horizons and career options.

Marple Newtown's World Language curriculum provides the opportunity to develop language proficiency in French and Spanish in the three modes of communication: interpretive, interpersonal, and presentational as defined in the Standards for Foreign Language Learning in the 21<sup>st</sup> Century. At the end of the Marple Newtown World Language program, students can reach the pre-advanced level of proficiency in each of the three modes as described in the ACTFL Performance Guidelines for K-12 Learners.

### **WORLD LANGUAGE DEPARTMENT RECOMMENDED SEQUENCE OF COURSES**

#### **Grade 9**

#### **Grade 10**

#### **Grade 11**

#### **Grade 12**

#### ***ADVANCED PLACEMENT/HONORS***

Honors Spanish IV (5610)  
Honors French IV (5611)

Honors Spanish V (5710)  
Honors French V (5714)

Honors Advanced Spanish Studies (5711) AP Spanish (5712)  
AP French (5715)

#### ***COLLEGE PREPARATORY***

Spanish I (5320)  
French I (5321)

Spanish II (5420)  
French II (5421)

Spanish III (5520)  
French III (5521)

Spanish IV (5620)  
French IV (5621)

\*Due to the fact that students enter high school at varying levels of language study, the above is simply a guideline and can be adjusted to begin at whichever level is appropriate for each individual student.

**Prerequisites:** Due to the cumulative nature of learning a world language, it is strongly recommended that in order to advance to the next course, students earn a grade of C- (70) or above.

## SPANISH: *HOLA!*

### SPANISH I

(NCAA approved course)

**5320**

**Year/1.0 credit**

**Grade 9, 10, 11, 12**

Spanish I serves as an introduction to the Spanish language and the many cultures of Spanish speaking countries. Utilizing listening, speaking, reading, writing, and presentation skills, students will be demonstrating understanding of a variety of topics relevant to their daily lives. Multimedia materials are incorporated into the curriculum to enhance student learning.

### SPANISH II

(NCAA approved course)

**5420**

**Year/1.0 credit**

**Grade 9, 10, 11, 12**

In Spanish II, students will continue their study of the Spanish language and cultures by expanding their vocabulary, grammar, and multicultural understanding. Students will be exposed to authentic text and multimedia materials that will further their communicative proficiency and appreciation.

### SPANISH III

(NCAA approved course)

**5520**

**Year/1.0 credit**

**Grade 9, 10, 11, 12**

Spanish III provides students with opportunities to elaborate on the vocabulary, grammar, and cultural topics learned in prior courses. Emphasis is placed on improving student reading, writing, speaking, listening, and presentation skills. Authentic and multimedia materials continue to be incorporated to enhance student learning and experience.

### SPANISH IV

(NCAA approved course)

**5620**

**Year/1.0 credit**

**Grade 9, 10, 11, 12**

In Spanish IV, students will continue to develop the active language skills through spoken and written activities at a more advanced level. Cultural appreciation is enhanced through supplemental listening and reading activities as well as multimedia materials. Written composition also receives increased emphasis.

### SPANISH IV - HONORS\*

(NCAA approved course)

**5610\***

**Year/1.0 credit**

**Grade 9, 10, 11, 12**

Spanish IV Honors allows students to continue their development of listening, speaking, reading, writing, and presentation skills within the context of a challenging and enriched curriculum. Both a comprehensive textbook program and a variety of supplementary and multimedia materials are utilized to heighten interest, enhance cultural understanding, and maximize achievement.

### SPANISH V - HONORS\*

(NCAA approved course)

**5710\***

**Year/1.0 credit**

**Grade 9, 10, 11, 12**

In Spanish V Honors students will continue to develop their knowledge of the Spanish language through listening, speaking, writing, and reading activities. Grammar will be an important aspect of this course, as previously learned concepts will be strengthened and new grammar forms will be introduced and developed. Using the various vocabulary units, students will learn to converse with more ease, as well as communicate with higher accuracy in well-developed written compositions and read short selections of Spanish literature.

## **HONORS ADVANCED SPANISH STUDIES\* (NCAA approved course) 5711\***

**Year/1.0 credit**

**Grade 11, 12**

The Advanced Spanish Studies course is a curriculum that is an enriched, accelerated program which focuses on introducing and developing College Board strategies. A greater retention and appreciation of prior knowledge is expected as there is a great deal of focus on communication and pronunciation of the target language in this course. Advanced grammar and vocabulary is developed through various activities involving current events and cultural topics, literary readings, film, and conversational scenarios. This course also teaches the skills necessary for success in the AP Spanish course. Enrolling in Advanced Spanish Studies is required for students who wish to take Advanced Placement Spanish in the future.

## **FRENCH: *BONJOUR!***

### **FRENCH I**

**(NCAA approved course)**

**5321**

**Year/1.0 credit**

**Grade 9, 10, 11, 12**

French I introduces students to the French language and the many francophone countries in the world. The course presents vocabulary and basic grammatical structures. Students learn to communicate opinions and feelings in French and exchange information in short oral or written sentences. Students begin to use French to discuss short reading selections and audiovisual texts from francophone cultures. The textbook program in French I and II offers listening practice via CD's and a DVD, as well as a variety of online resources.

### **FRENCH II**

**(NCAA approved course)**

**5421**

**Year/1.0 credit**

**Grade 9, 10, 11, 12**

In French II students will continue to develop their communicative proficiency in various contexts such as ordering in a café, clothes shopping, chores at home, city life, and vacation travel. The course introduces additional grammatical structures and continues to emphasize the development of reading and listening skills using both adapted and authentic reading selections and audiovisual texts from francophone cultures. The textbook program offers listening practice via CD's and a DVD, as well as a variety of online resources.

### **FRENCH III**

**(NCAA approved course)**

**5521**

**Year/1.0 credit**

**Grade 9, 10, 11, 12**

French III reviews and expands vocabulary and grammatical structures and presents skills and strategies for more accurate communication. Students learn to communicate more details about themselves and their activities. The use of the past tense is emphasized. Cultural units on the regions of France and Québec are included in the course. The textbook program offers CD's, a video program, and online resources. Authentic audio and written resources from the Internet are also included to provide additional listening and reading practice and updated cultural information.

### **FRENCH IV**

**(NCAA approved course)**

**5621**

**Year/1.0 credit**

**Grade 9, 10, 11, 12**

In French IV students greatly expand their knowledge of vocabulary and grammatical structures and tenses. The textbook program offers CD's, a video program, and online resources. The course uses the stories in *Petit Nicolas* by Sempé and Goscinny to build reading skills. During the year students improve their writing skills and enhance cultural understanding.

### **FRENCH IV - HONORS\***

**(NCAA approved course)**

**5611\***

**Year/1.0 credit**

**Grade 9, 10, 11, 12**

In French IV Honors students greatly expand their knowledge of vocabulary and grammatical structures and tenses within the context of a challenging and enriched curriculum. The core textbook used in French IV is supplemented with readings and Internet-based listening and reading activities. The curriculum is enriched with group and individual cultural projects and oral presentations. During the year students improve their writing skills and enhance cultural understanding.

### **FRENCH V - HONORS\***

**(NCAA approved course)**

**5714\***

**Year/1.0 credit**

**Grade 10, 11, 12**

The French V Honors course helps students progress from Novice Learner to Intermediate Learner as defined in the Standards for Foreign Language Learning in the 21<sup>st</sup> century. The course utilizes core textbook, literary selections of increasing length, authentic texts on contemporary issues, and authentic audio texts from the Internet. Historical and contemporary aspects of French culture are presented. Students have frequent opportunities for individual and group projects. During the year students improve their writing skills and enhance cultural understanding.

## **WORLD LANGUAGE ADVANCED PLACEMENT COURSES**

### **SPANISH LANGUAGE AND CULTURE - AP\* (NCAA approved course)**

**5712\***

**Year/1.0 credit**

**Grade 12**

AP Language and Culture courses strive to promote fluency and accuracy in language use. Students are engaged in the exploration of culture in both contemporary and historical contexts by reading, listening, and responding to a variety of authentic texts from literature, magazines, news broadcasts, films, etc. The goal of the course is proficient written and spoken communication in the target language. All classes are conducted in Spanish.

### **FRENCH LANGUAGE AND CULTURE - AP\* (NCAA approved course) 5715\***

**Year/1.0 credit**

**Grade 11, 12**

AP Language and Culture courses strive to promote fluency and accuracy in language use. Students are engaged in the exploration of culture in both contemporary and historical contexts by reading, listening, and responding to a variety of authentic texts from literature, magazines, news broadcasts, films, etc. The goal of the course is proficient written and spoken communication in the target language. All classes are conducted in French.

## **BUSINESS AND TECHNOLOGY EDUCATION**

The Business and Technology Education Department offers classes in computer applications, family and consumer sciences, business, and technology applications. A wide array of semester courses is available in a broad range of levels to suit each student's needs and interests. Emphasis is placed on hands-on, lab-based experiences, which give the student a sample of the vast opportunities available after high school in both traditional and non-traditional post-secondary settings.

### **BUSINESS AND TECHNOLOGY EDUCATION DEPARTMENT RECOMMENDED SEQUENCE OF COURSES**

#### **Grade 9**

Digital Information Technologies (6460)  
Intro to Software Development (6461)  
Computer Systems & Network Fund I (6462)  
Computer Systems & Network Fund II (6463)  
Child Development (6770)  
Intro to Engineering Design (6860)  
Principles of Engineering (6861)  
Introduction to Electronics (6863)  
Video Production I (6865)  
Video Production II (6866)  
Graphic Design I (6870)  
Graphic Design II (6871)  
Architectural Design and Construction (6874)  
Accounting (6972)  
Marketing (6973)  
Introduction to Business (6974)

#### **Grade 10**

Digital Information Technologies (6460)  
Intro to Software Development (6461)  
Computer Systems & Network Fund I (6462)  
Computer Systems & Network Fund II (6463)  
Game Development I (6560)  
Game Development II (6561)  
Robotics (6562)  
STEM Rocks (6563)  
Child Development (6770)  
Preschool Lab (6771)  
Culinary I (6780)  
Culinary II (6781)  
Intro to Engineering Design (6860)  
Principles of Engineering (6861)  
Introduction to Electronics (6863)  
Video Production I (6865)  
Video Production II (6866)  
Broadcasting (6867)  
Graphic Design I (6870)  
Graphic Design II (6871)  
Architectural Design and Construction (6874)  
Accounting (6972)  
Marketing (6973)  
Introduction to Business (6974)

#### **Grade 11**

Digital Information Technologies (6460)  
Intro to Software Development (6461)  
Computer Systems & Network Fund I (6462)  
Computer Systems & Network Fund II (6463)  
Game Development I (6560)  
Game Development II (6561)  
Robotics (6562)  
STEM Rocks (6563)  
Child Development (6770)  
Preschool Lab (6771)  
Culinary I (6780)  
Culinary II (6781)  
Culinary III (6782)  
Intro to Engineering Design (6860)  
Principles of Engineering (6861)  
Introduction to Electronics (6863)  
Video Production I (6865)  
Video Production II (6866)  
Broadcasting (6867)  
Graphic Design I (6870)  
Graphic Design II (6871)  
Architectural Design and Construction (6874)  
Accounting (6972)  
Marketing (6973)  
Introduction to Business (6974)

#### **Grade 12**

Digital Information Technologies (6460)  
Intro to Software Development (6461)  
Computer Systems & Network Fund I (6462)  
Computer Systems & Network Fund II (6463)  
Game Development I (6560)  
Game Development II (6561)  
Robotics (6562)  
STEM Rocks (6563)  
Child Development (6770)  
Preschool Lab (6771)  
Culinary I (6780)  
Culinary II (6781)  
Culinary III (6782)  
Intro to Engineering Design (6860)  
Principles of Engineering (6861)  
Introduction to Electronics (6863)  
Video Production I (6865)  
Video Production II (6866)  
Broadcasting (6867)  
Graphic Design I (6870)  
Graphic Design II (6871)  
Architectural Design and Construction (6874)  
Accounting (6972)  
Marketing (6973)  
Introduction to Business (6974)

## COMMUNICATIONS AND TECHNOLOGY

### DIGITAL INFORMATION TECHNOLOGIES

**6460**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

To gain an edge in today's highly competitive world, every student should be proficient in a variety of software applications and digital media. Students will learn to create products to communicate using a variety of digital media and a more in-depth experience will be provided in the most widely used commercial software applications such as Microsoft Office, Adobe Creative Suite Dreamweaver, Flash, Photoshop, Mobile Apps and the integration from one application to another, in addition to practicing safe, legal, and responsible use of information and technology. Additionally, students will be introduced to basic programming language(s). Class assignments will be project-based and students will sharpen computer skills needed to support personal productivity, group collaboration, and self-directed learning.

### INTRODUCTION TO SOFTWARE DEVELOPMENT I

**6461**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

This course will introduce programming techniques and fundamentals by using languages like HTML (Hypertext Markup Language) and Javascript. Students will be challenged to develop solutions to real-world scenarios by incorporating computer programming and coding skills, project-management and testing. Skills learned in this course can be applied to careers in mobile app development and website design.

### COMPUTER SYSTEMS AND NETWORK FUNDAMENTALS I

**6462**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

Technology has become a core component of any successful business or organization. Within technology there are many areas of support and maintenance ranging from computer hardware and physical and wireless networking to information security and software development. This course will provide students with an introduction to the core technical skills required to build a sustainable technology career.

### COMPUTER SYSTEMS AND NETWORK FUNDAMENTALS II

**6463**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

*Prerequisite: Successful completion of Computer Systems and Network Fundamentals I*

Students in this course will study networks and the computer devices that comprise a typical network. Students will learn to build, maintain, and support computer network systems which form the foundation for a beginning a career in Information Technology.

### GAME DEVELOPMENT I

**6560**

**Semester/0.5 credit**

**Grade 10, 11, 12**

*Prerequisite: Successful completion of Introduction to Software Development*

Electronic Game Development provides experiences for students to program a simulation or game application. This course emphasizes software engineering: requirements, design teams, testing and maintenance, documentation, programming and coding, and software design tools.

## GAME DEVELOPMENT II

**6561**

**Semester/0.5 credit**

**Grade 10, 11, 12**

*Prerequisite: Successful completion of Game Development I*

In Game Development I students had the opportunity review, play, design, and create basic video games. Students spent time working on understanding the foundations of video games. They had opportunities to utilize Game Factory and Pivot Animator to create simplistic games. In Game Development II, students will have a chance to build on the foundations and move towards the composition of games. This would utilize current programs such as Game Factory but go more in depth with more complex software. This software would include Multimedia Fusion 2, 001 Game Creator, and Blender.

## STEM INNOVATION & INVENTION - ROBOTICS

**6562**

**Semester/0.5 credit**

**Grade 10, 11, 12**

*Prerequisite: Successful completion of Principles of Engineering or Intro to Engineering Design*

This STEM (Science, Technology, Engineering, and Math) course will focus on introducing and exploring engineering with robots. Students will build and design robots to solve real-world problems and tasks while learning and applying engineering and physics concepts, formulas, and practices. The course is recommended for those students who enjoy hands-on design challenges and problem solving and/or who are considering a degree in engineering, design, robotics, or a related field of study.

## STEM ROCKS

**6563**

**Semester/0.5 credit**

**Grade 10, 11, 12**

Students will design and build a fully functional electric guitar, acoustic guitar, or acoustic ukulele. The focus areas of the STEM Guitar institutes include electric guitar, CNC guitar fabrication, and acoustic guitar. Across the United States, there are increasing concerns from businesses about the supply of science, technology, engineering, and mathematics trained workers. Although science and math test scores in the US are among the lowest around the world, the US educational system is in the process of revitalizing the “hands on” learning techniques as a way to enhance the participation and success of students. This project meets the needs of applied learning with the flexibility of being modular in the classroom.

Lab Fee: \$50

## INTRODUCTION TO ENGINEERING DESIGN

**6860**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

In this Project Lead the Way (PLTW) course students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and use an engineering notebook to document their work.

Lab Fee: \$15

### PRINCIPLES OF ENGINEERING

**6861**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

Through problems that engage and challenge learners, this Project Lead the Way (PLTW) course explores a broad range of engineering topics, including mechanisms, strength of structures, and materials, and automation. Students develop skills, such as problem-solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

Lab Fee: \$25

### INTRODUCTION TO ELECTRONICS

**6863**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

Prerequisite: Successful completion of Algebra 1

This is an introductory course in the fundamentals of DC circuitry. This course is delivered to the learner by the use of practical hands-on activities, which are complemented by concise textbook learning. Topics include electrical theory, Ohm's law, series circuits, parallel circuits, use of soldering equipment, micro-controllers, product design, troubleshooting, and electronic engineering. Power supplies and multimeters are used for circuit testing and laboratory experiments throughout the course. This course applies Physics concepts by incorporating theoretical and applied physics throughout each unit.

Lab fee: \$10

### VIDEO PRODUCTION I

**6865**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

This course is designed to plan and produce digital media using cameras and video editing. Students will learn how to properly use a camera to film different types of videos. Students will also use Adobe Premiere to edit videos. The types of videos students will be producing include stop motion animation, news stories, commercials, chase scenes, and more. Focus areas include story writing, scripting, video editing, and studio production.

### VIDEO PRODUCTION II

**6866**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

Prerequisite: Successful completion of Video Production I

Students will build on their knowledge and skills learned in Video Production I. The activities will include more student-directed projects and allow for more choice in the projects they complete. This class will help build skills in writing, filming, and editing techniques. A major focus will be script writing to produce movie trailers and short films. Adobe After Effects will be used to enhance projects using special effects and animation.

## **BROADCASTING**

**6867**

**Year/1.0 credit**

**Grade 10, 11, 12**

*Prerequisite: Successful completion of Video Production I*

This course is designed to plan and produce digital media focusing on television broadcasting and journalism. Focus areas include story writing, scripting, video editing, and studio production. Students will gain an understanding of how a news team works together to produce high-quality broadcasts. Student roles will include director, anchor, light engineer, sound engineer, video coordinator, teleprompter operator, and camera operator. Students will be responsible for producing news that will be broadcasted to the school.

## **GRAPHIC DESIGN I**

**6870**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

Graphic Design I introduces students to the fundamentals needed to be able to visually communicate accurate information and rich emotion through design. This course will provide the skills needed to effectively operate Adobe Photoshop, Illustrator, and InDesign. Projects will include photo retouching, photograph restoration, logo creation, restaurant menu design, and more. Each student's creativity will be utilized as students progress through a range of assigned projects.

## **GRAPHIC DESIGN II**

**6871**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

*Prerequisite: Successful completion of Graphic Design I*

Graphic Design II is a continuation of Graphic Design I, which concentrates on different areas of the printing industry. The software design skills obtained from Graphic Design I will be utilized in the creation of vinyl decal and sign making, professional grade heat transfers, screen printing, and more. This course is designed to build student interest in the production side of graphic communication and to improve the student's knowledge in graphic design to better make a possible career choice in this field.

## **ARCHITECTURAL DESIGN AND CONSTRUCTION**

**6874**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

*Prerequisite: Algebra I*

Students will design, plan, and construct an architectural design. Focus is on design and fabrication of residential construction. Each student will be required to hand draw a floor plan, digitally draw the floor plan, and create a digital rendering of the elevation using Chief Architect. Students will bring that floor plan to life by creating a scale model out of balsa wood using CorelDraw and the Laser Engraver to create pieces of the design.

Lab Fee \$10.00.

### **ACCOUNTING**

**6972**

**Semester/0.5 credit**

**Grade 10, 11, 12**

This course is a must for any student who has interest in a business career. As future employees, managers, and entrepreneurs, students who understand basic accounting principles will be better able to manage their personal and company's financial resources. Accounting is designed for students who anticipate continued study of accounting or business at the post-secondary level. The following core concepts will be covered in this course: the Accounting Cycle, Financial Statement Analysis, and the Forms of Business Ownership. Accounting objectives also include an understanding of the industry, career options, accounting as a college major, and general business success skills. An understanding of accounting will be invaluable, no matter what job you hold or in what organization you work.

### **MARKETING**

**6973**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

Do you love sports? Do you want to work for the Philadelphia Eagles, the Union, or the Phillies? Not professional athlete material? Well you don't have to be. You can still work for these organizations in the administrative offices. Marketing is your ticket to get in the door. This course will use a virtual business simulation software, the students handle promotion, ticket pricing, stadium operations and staffing, sponsors, concessions, concert booking and promotion, and more. This course will take you on a step-by-step journey through the exciting world of sports and entertainment marketing. You will learn about the key functions of marketing and how those functions are applied to the sports industry. This marketing class will provide students the opportunity to "work" in the exciting sports and entertainment world. The online simulation teaches students the hard business decisions that go into the sports and entertainment events the students enjoy in real life. Marketing is one of the largest and most exciting career areas in business and there are many career opportunities in this field.

### **INTRODUCTION TO BUSINESS**

**6974**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

As the nature of work continues to change, business education becomes increasingly important to all students. This course provides students with the opportunity to develop the skills and techniques necessary for success in the local and global workplace. Students will be introduced to the basics of finance, the decision making techniques to be wise consumers, the economic principles of an increasingly international marketplace, and the processes by which businesses operate. This course provides a solid introduction to other business courses, such as Accounting and Marketing.

## FAMILY AND CONSUMER SCIENCE

### CHILD DEVELOPMENT

**6770**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

This course is designed to introduce students to the processes involved in the development of children from the prenatal stage to pre-school age. Brain development, literacy skills, nutrition, safety, special needs, and effective parenting skills are among the topics that will be studied.

### PRESCHOOL LAB

**6771**

**Semester/0.5 credit**

**Grade 10, 11, 12**

Through discussion, observations, and working directly with the onsite MNSD preschool program, students will see first-hand how the young child develops physically, intellectually, emotionally, and socially. In addition to preparing students for careers related to children, this course will assist students in becoming more informed and effective parents in the future.

### CULINARY ARTS I

**6780**

**Semester/0.5 credit**

**Grade 10, 11, 12**

In this course, students will study nutrition and wellness according to the USDA's Dietary Guidelines by examining their personal eating habits. Students will have first-hand experiences preparing a variety of foods essential for healthy eating and living. Food safety, sanitation, and basic food chemistry will be discussed. Proper use of basic culinary equipment will be practiced. Related careers in the hospitality industry will be presented. *Students with food allergies are cautioned when electing to participate in this course. Foods cannot be quarantined and cross contamination and/or exposure to food allergens is possible.* Note: The USDA Dietary Guidelines includes all food groups. Enrolled students are expected to participate fully in preparing and eating foods.

Lab Fee: \$25.00

### CULINARY ARTS II

**6781**

**Semester/0.5 credit**

**Grade 10, 11, 12**

Prerequisite: Successful completion of Culinary Arts I.

This course, via the study of grains, a vital staple of healthy eating worldwide, builds on the skills acquired in Culinary Arts I. Students will understand interactions of ingredients and practice baking skills as they cook main dishes, cereals, desserts, and breads. At the same time, consumer issues, such as FDA enforced Food Labels, UPC codes, additives, organic foods, product placement, bait and switch tactics, and generic versus national food labels will be identified and discussed. *Students with food allergies are cautioned when electing to participate in this course. Foods cannot be quarantined and cross contamination and/or exposure to food allergens is possible.* Note: The USDA Dietary Guidelines includes all food groups. Enrolled students are expected to participate fully in preparing and eating foods.

Lab Fee: \$25.00.

## CULINARY ARTS III

**6782**

**Semester/0.5 credit**

**Grade 11, 12**

Prerequisite: Successful completion of Culinary Arts I & II.

This advanced course is best suited for serious “foodies” and students considering a career in culinary arts. Students will explore how culture, geography, and history impact food habits and cuisines around the world and create the fusion popular in today’s recipes. This fast-paced course will examine the culinary brigade, careers in hospitality, the mother sauces, wet and dry cooking principles, restaurant techniques, equipment, and ingredients in our state- of- the- industry kitchen where commercial tools and equipment will be employed. Enrollment is limited to juniors and seniors. *Students with food allergies are cautioned when electing to participate in this course. Foods cannot be quarantined and cross contamination and/or exposure to food allergens is possible.* Note: The USDA Dietary Guidelines includes all food groups. Enrolled students are expected to participate fully in preparing and eating foods.

Lab Fee: \$25.00

## **VISUAL AND PERFORMING ARTS**

The courses that are offered in the Visual and Performing Arts Department provide all students the opportunity to explore a wide range of musical and artistic experiences. The Visual and Performing Arts promote, develop, and expand creative and divergent thinking using imagination, problem-solving, innovation, and invention.

### **VISUAL AND PERFORMING ARTS DEPARTMENT RECOMMENDED SEQUENCE OF COURSES**

<b>Grade 9</b>		<b>Grade 10</b>	
Photography Then & Now (6889)	Band – Brass (7880)	Photography Then & Now (6889)	Band – Brass (7880)
Photography I (6890)	Band – Percussion (7881)	Photography I (6890)	Band – Percussion (7881)
Photography II (6891)	Band – Woodwind (7882)	Photography II (6891)	Band – Woodwind (7882)
Digital Imaging I (6894)	Choir (7883)	Photography III (6892)	Choir (7883)
Digital Imaging II (6895)	Orchestra (7885)	Digital Imaging I (6894)	Orchestra (7885)
Piano I (7560)	Drawing and Painting (7970)	Digital Imaging II (6895)	Drawing and Painting (7970)
Piano II (7561)	Visual Art (7971)	Digital Imaging III (6896)	Visual Art (7971)
Guitar I (7562)	Décor & Funct Arts (7972)	Piano I (7560)	Décor & Funct Arts (7972)
Guitar II (7563)	Three Dim Design (7973)	Piano II (7561)	Three Dim Design (7973)
Music Theory (7870)	Illustration & Cartooning I (7975)	Guitar I (7562)	Illustration & Cartooning I (7975)
American Music Theater (7874)	Studio Art I (7980)	Guitar II (7563)	Illustration & Cartooning II (7976)
	Ceramics I (7991)	AP Music Theory (7810)	Unified Drawing and Painting (7977)
	Ceramics II (7992)	Music Theory (7870)	Studio Art I (7980)
		American Music Theater (7874)	Studio Art II (7981)
			Ceramics I (7991)
			Ceramics II (7992)
<b>Grade 11</b>		<b>Grade 12</b>	
Photography Then & Now (6889)	Band – Woodwind Band	Photography Then and Now (6889)	AP Studio Art – Drawing (7910)
Photography I (6890)	Choir (7883)	Photography I (6890)	AP Studio Art 3D (7911)
Photography II (6891)	Orchestra (7885)	Photography II (6891)	AP Studio Art – Photography (7912)
Photography III (6892)	AP Studio Art Draw (7910)	Photography III (6892)	AP Studio Art– Digital Imaging(7913)
Photography IV (6893)	AP Studio Art 3D (7911)	Photography IV (6893)	AP 2-D Art and Design (7915)
Digital Imaging I (6894)	AP Studio Art Photo (7912)	Digital Imaging I (6894)	Drawing and Painting (7970)
Digital Imaging II (6895)	AP Studio Art Digital (7913)	Digital Imaging II (6895)	Visual Art (7971)
Digital Imaging III (6896)	Drawing and Painting (7970)	Digital Imaging III (6896)	Décor & Funct Arts (7972)
Digital Imaging IV (6897)	Visual Art (7971)	Digital Imaging IV (6897)	Three Dim Design (7973)
Piano I (7560)	Décor & Funct Arts (7972)	Piano I (7560)	Illustration & Cartooning I (7975)
Piano II (7561)	Three Dim Design (7973)	Piano II (7561)	Illustration & Cartooning II (7976)
Guitar I (7562)	Illustration & Cartooning I (7975)	Guitar I (7562)	Unified Drawing and Painting (7977)
Guitar II (7563)	Illustration & Cartooning II (7976)	Guitar II (7563)	Studio Art I (7980)
AP Music Theory (7810)	Unified Drawing and Painting (7977)	AP Music Theory (7810)	Studio Art II (7981)
Music Theory (7870)	Studio Art I (7980)	Music Theory (7870)	Studio Art III (7982)
American Music Theater (7874)	Studio Art II (7981)	American Music Theater (7874)	Ceramics I (7991)
Band – Brass (7880)	Studio Art III		Ceramics II (7992)
Band – Percussion (7881)	(7982) Ceramics I	Band – Brass (7880)	
Band – Woodwind (7882)	(7991)	Band – Percussion (7881)	
Choir (7883)	Ceramics II (7992)	Band-Woodwind (7882)	
Orchestra (7885)			

## PHOTOGRAPHY

### PHOTOGRAPHY THEN AND NOW

**6889**

**Semester/0.5 credit**

**Grades 9, 10, 11, 12**

Ever wish you could have the best of both worlds? This class will allow you to do that. This course will let you experience the creativity and techniques of both traditional black and white darkroom photography and digital photography. Students will be able to experience a handmade camera from the 19<sup>th</sup> century, film from the 20<sup>th</sup> century, and 21<sup>st</sup> century digital photography. Lab fee \$35.00.

### PHOTOGRAPHY I

**6890**

**Semester/0.5 credit**

**Grades 9, 10, 11, 12**

This is a basic course in black and white film processing and printing that introduces students to the magic of photography. Emphasis will be placed on the photographic image as a means of expression and the use of the camera to explore and discover the visual world. Students will shoot, process, and print their own pictures made with hand built cameras as well as film taken with 35mm cameras. Students will also be allowed to shoot digital photos, convert them into negatives, and print them in the darkroom. Students will benefit from having access to a 35mm or digital camera with a manual setting. School cameras are available for those who do not have access to one. No experience is necessary.

Lab Fee \$85.00.

### PHOTOGRAPHY II

**6891**

**Semester/0.5 credit**

**Grades 9, 10, 11, 12**

Prerequisite: Successful completion of Photography I.

This course is a continuation of Photography I. This course is designed to give the student continued study of black and white photographic processes and the exploration of camera techniques. Students will also be allowed to shoot digital photos, convert them into negatives, and print them in the darkroom. Emphasis will be placed on the printed image as well as solarization, hand coloring, and toning.

Lab Fee \$85.00.

### PHOTOGRAPHY III

**6892**

**Semester/0.5 credit**

**Grades 10, 11, 12**

Prerequisite: Successful completion of Photography II.

This course is designed to give the student continued study of black and white photographic processes, and the exploration of more advanced camera, non-silver, and creative darkroom techniques. Students will be introduced to digital photography and image manipulation. The student will be able to use acquired photographic knowledge and skills as a tool for more creative expression.

Lab Fee \$85.00.

## **PHOTOGRAPHY IV**

**6893**

**Semester/0.5 credit**

**Grades 11, 12**

*Prerequisite: Successful Completion of Photography III*

This advanced course is designed to provide students who are seriously interested in a practical experience in photography. Students are required to demonstrate a working knowledge of a variety of techniques and materials relative to their study of photography. This course is designed to allow students to develop their own personal style.

Lab Fee \$85.00.

## **DIGITAL IMAGING I**

**6894**

**Semester/0.5 credit**

**Grades 9, 10, 11, 12**

This course will let students experience the magic of photography without stepping into a traditional darkroom. It is designed to introduce students to digital image manipulation, the fundamentals of Adobe Photoshop and the digital darkroom. Students will use their creativity to produce images that will be inputted into the computer via digital cameras, film, and picture scanning. Students will learn to manipulate and edit images, understand the language of the digital darkroom, and create artistic imagery.

Lab Fee \$30.00.

## **DIGITAL IMAGING II**

**6895**

**Semester/0.5 credit**

**Grades 9, 10, 11, 12**

*Prerequisite: Successful completion of Digital Imaging I.*

This course will enhance students understanding of photography and the digital arts. Students will expand their knowledge of Photoshop and digital techniques. Students will explore visual communication through artistic expression.

Lab Fee \$30.00

## **DIGITAL IMAGING III**

**6896**

**Semester/0.5 credit**

**Grades 10, 11, 12**

*Prerequisite: Successful completion of Digital Imaging I & II.*

This course is designed to help students master advanced imagery through print manipulation. Students will expand their knowledge of Photoshop by exploring more sophisticated composite techniques.

Lab Fee \$25.00

## **DIGITAL IMAGING IV**

**6897**

**Semester/0.5 credit**

**Grades 11, 12**

*Prerequisite: Successful completion of Digital Imaging III*

This advanced course is designed to provide students who are seriously interested in expanding their knowledge of Photoshop. Students are required to demonstrate a working knowledge of a variety of tools and techniques. This course is designed to allow students to develop their own personal style and design their own projects.

Lab fee \$20.00.

## **STUDIO ART - AP\* - PHOTOGRAPHY**

**7912\***

**Year/1.0 credit**

**Grade 11, 12**

*Prerequisite: Successful completion of Photo I & II, OR Digital Imaging I & II AND successful portfolio review by the student's art instructor.*

This course has been developed to challenge students who have successfully completed a minimum of one year of studio art or photography/digital imaging courses and expressed an interest in completing the AP Portfolio. Students will be challenged to develop their own personal work through mastery of concept, composition, and execution of their personal ideas and themes. Students must follow the AP Studio Art syllabus for either Drawing or Design and are strongly encouraged to submit their portfolio to the College Board for review.

## **STUDIO ART - AP\* - DIGITAL**

**7913\***

**Year/1.0 credit**

**Grade 11, 12**

*Prerequisite: Successful completion of Photo I & II, OR Digital Imaging I & II AND successful portfolio review by the student's art instructor.*

This course has been developed to challenge students who have successfully completed a minimum of one year of studio art or photography/digital imaging courses and expressed an interest in completing the AP Portfolio. Students will be challenged to develop their own personal work through mastery of concept, composition, and execution of their personal ideas and themes. Students must follow the AP Studio Art syllabus for either Drawing or Design and are strongly encouraged to submit their portfolio to the College Board for review.

# **ART**

## **STUDIO ART - AP\* - DRAWING**

**7910\***

**Year/1.0 credit**

**Grade 11, 12**

*Prerequisite: Earned a B+ or above in Studio Art I and successful portfolio review by the student's art instructor.*

This course has been developed to challenge students who have successfully completed a minimum of one year of studio art or photography/digital imaging courses and expressed an interest in completing the AP Portfolio. Students will be challenged to develop their own personal work through mastery of concept, composition, and execution of their personal ideas and themes. Students must follow the AP Studio Art syllabus for either Drawing or Design and are strongly encouraged to submit their portfolio to the College Board for review.

## **STUDIO ART - AP\* - 3-D DESIGN**

**7911\***

**Year/1.0 credit**

**Grade 11, 12**

*Prerequisite: Earned a B+ or above in Studio Art I and successful portfolio review by the student's art instructor.*

This course has been developed to challenge students who have successfully completed a minimum of one year of studio art or ceramics I & II and expressed an interest in completing the AP 3-D Portfolio. Students will be challenged to develop their own personal body of work through mastery of materials, concept, and execution of their personal ideas and themes. Students must follow the AP Studio Art syllabus for 3-D Design and are strongly encouraged to submit their portfolio to the College Board for review upon completion of this course.

## **2-DIMENSIONAL ART AND DESIGN-AP\***

**7915\***

**Year/1.0 credit**

**Grade 12**

Pre-Requisite: Requires teacher recommendation

AP 2-D Art and Design is an introductory college-level two-dimensional design course. Students refine and apply skills and ideas they develop throughout the course to produce two-dimensional art and design.

## **DRAWING AND PAINTING**

**7970**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

This course introduces the student to the disciplines of painting and drawing. Students will study the elements and principles of art through the concentrated survey of these two disciplines. The course includes a study of famous artists and their work, and will explore various techniques included in painting and drawing to enhance students' existing artistic abilities.

## **VISUAL ART**

**7971**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

The Visual Art course is designed to provide the student with a working knowledge of a variety of techniques, materials, tools, and concepts in the major fields of Art. In addition to art-making skills, students will explore color theory, design concepts, and art elements and principles. Some of the mediums students will explore include: drawing, painting, printmaking, sculpture, book making, and more.

## **DECORATIVE AND FUNCTIONAL ART**

**7972**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

Students will work with a variety of materials in order to create both decorative & functional art pieces. This course is geared for students who would like to explore and create a variety of crafts using techniques such as: tie-dye, stained glass mosaics, jewelry making, ceramic masks, wearable art, pottery, paper mache, and more.

## **THREE DIMENSIONAL DESIGN**

**7973**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

This class will learn about the history and techniques involved in creating various three-dimensional works of art. Students will work in various art media such as clay, plaster, paper mache, and paper to create several three-dimensional pieces. Students will work on individual projects as well as large-scale group projects.

## **ILLUSTRATION AND CARTOONING I**

**7975**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

This class will study the fundamentals of drawing and visual "story telling." Students will learn how illustrations and cartoons are prepared and the techniques necessary to produce successful illustrations. The students will learn how to visually develop a story with featured characters and complete illustrations needed for school publications and their art portfolio.

## **ILLUSTRATION AND CARTOONING II**

**7976**

**Semester/0.5 credit**

**Grade 10, 11, 12**

*Prerequisite: Successful completion of Illustration and Cartooning I and successful portfolio review by the student's art instructor*

In this course, students will further their understanding of illustration by using their artistic skills to produce a work of sequential art. Sequential art uses carefully designed images, arranged in sequence, for graphic storytelling. Utilizing a number of activities and techniques designed to improve their artistic skills, as well as their understanding of visual storytelling; students will plan, write, design, and paint a graphic story of their own creation.

## **UNIFIED DRAWING AND PAINTING**

**7977**

**Semester/0.5 credit**

**Grade 10, 11, 12**

This inclusive course introduces the student to the disciplines of painting and drawing using a collaborative approach to artistry. Students will study the elements and principles of art through the concentrated survey of these two disciplines. The course includes a variety of projects created using a fully integrated, team-based approach.

## **STUDIO ART I**

**7980**

**Year/1.0 credit**

**Grade 9, 10, 11, 12**

*Prerequisite: Teacher recommendation required.*

This is a project-centered course for students who are interested in art or wish to develop a portfolio for college. This course will present students with a series of projects through which they will achieve a greater understanding of various art concepts, techniques, and media. Students will work on drawing, painting, sculpture, ceramics, and printmaking.

Students will be required to purchase a personal sketchbook and individual supplies.

## **STUDIO ART II**

**7981**

**Year/1.0 credit**

**Grade 10, 11, 12**

*Prerequisite: Successful completion of Studio Art I.*

This course is the next step for Studio Art I students. The coursework is geared to further develop students' artistic skills and to continue to build a portfolio of artwork for admission into an art school or college. Class projects will involve a variety of art media including, but not limited to: drawing, pen & ink, painting, printmaking, watercolor, and sculpture. Students will be required to keep a sketchbook for home assignments.

## **STUDIO ART III**

**7982**

**Year/1.0 credit**

**Grade 11, 12**

*Prerequisite: Successful Completion of Studio Art II*

This course is the next step for Studio Art II students. The coursework is geared to further refine students' artistic skills and to prepare them for AP Studio Art. Studio Art III fosters higher order thinking, creative problem solving, cooperative learning, and self-discipline. Class projects will involve a variety of art media including, but not limited to: drawing, pen & ink, painting, printmaking, watercolor, ceramics, and sculpture. Students will be required to keep a sketchbook for home assignments.

## **CERAMICS I**

**7991**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

This course will introduce the student to the world of ceramics. Students will work in clay and learn the various hand-building techniques used in ceramic production. The students in this class will produce a wide variety of both decorative and functional pieces of ceramic art.

Lab fee \$30.00.

## **CERAMICS II**

**7992**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

*Prerequisite: Successful completion of Ceramics I*

The Ceramics II course is the next step for any student that has successfully completed the Ceramics I course. The focus of this course is for students to continue to develop their knowledge and ability to conceptualize, design, and create a variety of projects in clay. This course will build upon the basic knowledge and understanding of hand building and pottery wheel techniques that were taught in the Ceramics I course. Students will also have the opportunity to learn how to use the pottery wheels to create vessels. Students will produce a variety of both decorative and functional pieces of Ceramic Art.

Lab fee \$30.00.

## MUSIC

### PIANO I

**7560**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

Students will be introduced to elements of music and fundamental concepts of performance techniques on piano. Through group instruction and demonstration, students will learn the basic skills necessary for playing songs with this instrument. Students will develop an appreciation for various styles of music and gain a deeper understanding of the value of music and its role with social development. Technology will be incorporated to better enhance the student's understanding of the performing arts.

### PIANO II

**7561**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

*Prerequisite: Piano I or recommendation from the instructor.*

Students will further their skills learning a variety of piano literature. Students will learn to perform on electronic and acoustic pianos. Through the use of technology, students will gain a deeper understanding of piano composition and will create and perform original pieces.

### GUITAR I

**7562**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

Students will be introduced to elements of music and fundamental concepts of performance techniques on guitar. Through group instruction and demonstration, students will learn the basic skills necessary for playing songs with this instrument. Students will develop an appreciation for various styles of music and gain a deeper understanding of the value of music and its role with social development. Technology will be incorporated to better enhance the student's understanding of the performing arts.

### GUITAR II

**7563**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

*Prerequisite: Guitar I or recommendation from the instructor.*

Continuing on the foundation of Guitar I, students will learn new techniques and form for the guitar. Through this course, students will gain a deeper understanding of guitar styles, notation, and composition. Students will have the opportunity to play solo and group repertoire using folk, reggae and pop styles of music.

### MUSIC THEORY - AP\*

**7810\***

**Year/1.0 credit**

**Grade 10, 11, 12**

*Prerequisite: Successful completion of Music Theory I or teacher approval.*

AP Music Theory will develop the student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. Fundamental aural, analytical, and compositional skills will be thoroughly examined using both listening and written exercises. The course will also give students the opportunity to explore various composition techniques including the harmonization of a melody by selecting appropriate chords, composing a musical bass line to provide two-voice counterpoint, and the realization of figured-bass notation. All students enrolled in AP courses are strongly encouraged to take the College Board's Advanced Placement Exam.

### **MUSIC THEORY**

**7870**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

This course is designed for any student who plays an instrument or sings and wishes to enhance their musical skills. In Music Theory I, students will learn the art of sight singing, musical dictation, interval identification (aural and written), and basic chord structure. Students must first demonstrate the ability to read and understand basic music notation. Students taking Music Theory I will be able to sight sing passages with basic intervals, identify, understand, and appreciate basic chord structures, and be prepared to take AP Theory.

### **AMERICAN MUSIC THEATER**

**7874**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

The American Music Theater course is a non-performance music class designed for any student who is interested in learning about the history and development of American Music Theater. This course studies the elements, history, and importance of appreciation of musical theater and the impact it has on American society.

### **BAND**

**Year/1.0 credit**

**Grade 9, 10, 11, 12**

Band is a full-year course. It will be separated into three distinct sections: woodwind, brass, and percussion. Students in the band will learn music theory and perform together as an ensemble. Students will be responsible for all scheduled after school and evening dress rehearsals and performances throughout the year. Performances include school concerts, local and regional parades, and scheduled community events. The band performs standard band music, as well as contemporary and popular music. Band members are eligible to audition for district, regional, and state band after their freshman year. Please visit [www.tigermusic.org](http://www.tigermusic.org) for more information regarding policies, requirements, and grading procedures.

**BASS 7880**

**PERCUSSION 7881**

**WOODWIND 7882**

## **CHOIR**

**7883**

**Year/1.0 credit**

**Grade 9, 10, 11, 12**

Choir meets for a full year with the purpose of developing a good choral sound. The repertoire consists of outstanding compositions of the Baroque, Classical, Romantic, and Contemporary periods, as well as pop selections. Members are eligible to audition for district, regional, and state choir after their freshman year. In addition to all scheduled classes, members of the choir are responsible for all scheduled before and after school dress rehearsals and performances throughout the year. Please visit [www.tigermusic.org](http://www.tigermusic.org) for more information regarding policies, requirements, and grading procedures.

## **ORCHESTRA**

**7885**

**Year/1.0 credit**

**Grade 9, 10, 11, 12**

Orchestra is a full-year course. The orchestra consists of string musicians. All musicians interested may participate in the orchestra, regardless of ability level. The orchestra performs at various concerts throughout the year and gives members the opportunity to excel at their instrument(s) as well as makes them eligible to audition for district, regional, and state orchestra after their freshman year. The music performed includes standard orchestral literature, and branches into genres such as Broadway show tunes, movie soundtracks, and contemporary pieces. Students will be responsible for scheduled after school rehearsals and performances throughout the year. Please visit [www.tigermusic.org](http://www.tigermusic.org) for more information regarding policies, requirements, and grading procedures.

### **MUSIC TECHNOLOGY I**

**7892**

**Semester/0.5 credit**

**Grade 9, 10, 11, 12**

An introduction to music technology software and hardware, focused on basic acoustics, digital audio, MIDI, and MIDI sequencing and notation software. Lab activities will place an emphasis on the operation and components of the typical MIDI and digital audio lab (hardware and software). Students will complete independent projects in areas such as digital audio, music notation, and MIDI sequencing. In addition to the hands-on curriculum, students will learn about the history of analog and digital synthesis and the evolution of the technology, focusing on the relationships between past and present technologies.

### **MUSIC TECHNOLOGY II**

**7893**

**Semester/0.5 credit**

**Grade 10, 11, 12**

A continuation of Music Technology I, students will further explore the elements of music production and fundamentals concepts of studio and live sound engineering. Through group instruction and demonstration, students will learn the skills necessary to choose and operate equipment, both hardware and software, for any given situation. Topics include: Song Composition, Podcast Development, Loop and Beat Creation, Music Business, Recording Equipment, Artist Development and Promotion, Live Sound and Music Career Options. Coursework includes journal work, hands-on training, quizzes, and exams (may be written or application work). (Prerequisite: Music Technology I or permission from instructor.)

### **MUSIC TECHNOLOGY III**

**7894**

**Semester/0.5 credit**

**Grade 10, 11, 12**

A continuation of studies begun in Music Technology I & II, this course focuses on advanced concepts in music technology and their application to multimedia. Students learn how to score for film and synchronize multimedia with advanced sound design, sampling, and production techniques. This course prepares students for the techniques and practices used in a professional recording studio. It includes learning various studio hardware, signal processing, mixing board console navigation, signal flow, microphone designs and how they are used for recording sound, and where they are typically placed. Students learn how to run a live recording session and the best way to record, edit and master that session. In addition students will learn about entrepreneurship in the music industry: marketing music projects, contracts and licensing, royalty reporting and other technological competencies necessary for a successful entertainment industry business. (Prerequisite: Music Technology I & II or permission from instructor.)

## CAREER EDUCATION

### CAREER PATHWAYS

**9599**

**Semester/.5 credit**

**Grade 10**

Pathways is a graduation requirement for all sophomores. This course will enhance college and career readiness skills by assisting our tenth-grade students with investigating all post-secondary options such as, but not limited to: 2-or 4-year college, career/technical institute, military service, employment, apprenticeship, or service. Students will become familiar with career pathways and the use of a comprehensive college and career readiness solution system. The central pillars of career awareness and preparation, acquisition, retention and advancement, and entrepreneurship will be explored through topics such as, but not limited to: career research, self-evaluation and reflection, resume building, goal setting, time management, financial literacy, conflict resolution, critical thinking, social responsibility, effective communication and collaboration. The Career Pathways course will culminate with each student producing an individual career plan and career portfolio for use with their post-secondary transition.

### JUNIOR INITIATIVE

**9600**

**Fall Semester of Junior Year/0.5 credit**

**Grade 11**

Business is the foundation of the economies of both the United States and the world. The theme of the Junior Initiative, “The Real World: How Business Works,” will introduce students to the real world of work through a project-based approach that will provide students the opportunity to make choices about what types of businesses and careers to explore. This approach will enable students to better understand the real world of work and may help inform their decisions about future career paths. This is a required course for all juniors.

### SENIOR PROJECT

**9700**

**Spring Semester of Senior Year/1.0 credit**

**Grade 12**

The purpose of the Senior Project is to provide the student with a practical learning situation and an invaluable opportunity to utilize the knowledge and skills acquired over the course of the education process in a “real world” application. The project relates to life outside the classroom in a genuine way and is a direct, practical application of the student’s abilities. It is an individual project in which the student chooses, plans, develops, and directs the project’s success by piloting the project and taking charge of the educational experience. This is a required course for all seniors and successful completion is necessary to fulfill graduation requirements.

### WORK EXPERIENCE

**9760**

**Semester/no credit**

**Grade 12**

Career Exploration offers the student an opportunity to enjoy a community work experience in a carefully monitored situation with educational/professional supervision, observation, and guidance. The course extends the classroom into the community and focuses on “learning while doing”. Career Exploration also provides an opportunity for students to meet occupational demands through organized work experiences provided by the school and to get an advanced look at the “real working world”. Students must be in good academic standing and have the appropriate number of credits to be on track for graduation in order to participate.

### **SERVICE LEARNING**

**9761**

**Semester/0.5 credit**

**Grade 12**

This course is designed to offer students the opportunity to provide service in our high school community. This course is embedded as part of an existing course of study offered at MNHS. Through participation in Service Learning, our students will be involved in a hands-on experience through one of our departments throughout the building. Some examples include lifeguarding, preschool helper, culinary arts prep, and a variety of assistant opportunities. Students interested in this course should make arrangements through their counselor.

### **TECHNICAL PROGRAM**

**9880**

**Year/3.0 – 3.5 credits**

**Grade 10, 11, 12**

The Technical School Program is offered to tenth, eleventh, and twelfth grade students at one of two Intermediate Unit-run Technical Schools: Aston or Folcroft. The training available at these schools is extensive and demanding and provides a graduate with an excellent background for technical jobs, 2-4 year technical colleges, or 4-year colleges.

Students interested in this program should see their guidance counselor during the course selection process in order to apply for the following school year.

## DELAWARE COUNTY TECHNICAL SCHOOLS

### Career and Technical Education

The Marple Newtown School District participates in career and technical education at DCTS. Each course is an extension of the high school program and elective credits towards high school graduation will be awarded. The courses are scheduled on a half-day basis.

### Mission Statement:

The Delaware County Technical Schools are *preparing today's students for tomorrow's opportunities* by meaningful career training and a foundation for lifelong learning with support from business, industry and the community. At DCTS, courses are available in one of four clusters:

1. Health and Human Services Cluster
2. Construction Cluster
3. Power and Transportation Cluster
4. Technology Cluster

**The DCTS catalog offers a complete description of each program and is available from your counselor.**

### STUDENT REGISTRATION PROCEDURES and TIMELINES

1. Students who indicate a desire to attend the Delaware County Technical Schools will complete an application form, which is available from their school counselor and online at <http://www.delcotech.org/>.
2. The school counselor will supply supplemental information for each student enrolling at DCTS (report card, transcript; if applicable, IEP, ER, and/or other pertinent information). School counselors will mail student application forms containing the supplemental information.
3. A committee, led by the DCTS Building Administrator, will evaluate all applications in light of the available information provided by the home school. When necessary, conferences will be arranged with the home school counselors, career instructors, and/or parents of the applicants in order to resolve the status of the questionable application. If sufficient openings are not available in the student's preferences, the student will be informed of openings in other programs.
4. Delaware County Technical Schools will protect the security of all confidential student records received from member districts.

**REGISTRATION DEADLINE IS FEBRUARY 1, 2021**



# Delaware County Technical High Schools

### **School of Health & Bioscience:**

- Biomedical Technology & Laboratory Sciences
- Exercise Therapy & Sports Science
- Medical Careers
- Dental Technology
- Nurse/Medical Assistant (Health Sciences)
- Emergency & Protective Services

### **School of Engineering & Computer Science:**

- Advertising Design & Commercial Art
- Apple Systems & Design
- Computer Networking & Digital Forensics
- Engineering & Robotics

### **School of Construction Technology:**

- Electrical Construction Technology
- Heating, Ventilation & Air Conditioning (HVAC)/Plumbing
- Building Trades
- Carpentry
- Welding 2019-2020 School Year

### **School of Hospitality, Tourism & Human Services:**

- Cosmetology
- Culinary Arts & Food Service Management
- Culinary Arts & Hospitality
- Early Childhood Education

### **School of Logistics, Distribution & Transportation:**

- Automotive Technology
- Collision Repair Technology
- Logistics & Inventory Management

<http://www.dciu.org/dcts>

## **ADDITIONAL ACADEMIC INFORMATION**

### **PROMOTION FROM MIDDLE SCHOOL**

To be admitted to the Marple Newtown High School a student must pass Math, English, Social Studies, and Science in the eighth grade. Failed subjects in any of these areas must be made up in summer school or through a pre-approved alternative program.

### **MARPLE NEWTOWN HIGH SCHOOL RESTORATION POLICY**

It is the policy of the Marple Newtown School District that students may participate in a summer program of remedial instruction for course-credit. The student shall receive the same letter grade for high school credit that is assigned by the alternative education resource. The assigned student grade for successfully completed work shall not be weighted for purposes of computing the student's grade point average, unless prior approval has been granted by the administrator before the course work was begun.

1. Students must enroll in a course given by an accredited institution approved by the Superintendent or designee.
2. Students need to provide an official transcript indicating the final grade earned in the course to the MNHS School Counseling Office.
3. Students assume responsibility of all fees, materials, and transportation.
4. The building principal or designee approves the course in advance.
5. If enrollment in an accredited institution is not possible during the summer, then the course will be rescheduled in a subsequent academic year.

### **MARPLE NEWTOWN HIGH SCHOOL ACCELERATION POLICY**

It is the policy of the Marple Newtown School District that students may participate in a summer program of enrichment instruction for course-credit. The student shall receive the same letter grade for high school credit that is assigned by the alternative education resource. The assigned student grade for successfully completed work shall not be weighted for purposes of computing the student's grade point average, unless prior approval has been granted by the administrator before the course work was begun.

1. Students must enroll in a course given by an accredited institution approved by the Superintendent or designee.
2. Students need to provide an official transcript indicating the final grade earned in the course to the MNHS School Counseling Office.
3. Students assume responsibility of all fees, materials, and transportation.
4. The building principal or designee approves the course in advance.
5. Students need to earn no less than an 80% or B- in the summer program AND no less than an 80% or B- on the MNHS final examination for the same course to be fulfilled upon successful completion of the summer school program. Students are responsible for scheduling administration of the MNHS final examination.

## DUAL ENROLLMENT AND DUAL CREDIT

It is the policy of the Marple Newtown School District that students may enroll in college courses at an accredited institution. The assigned student grade for successfully completed work shall not be weighted for purposes of computing the student's grade point average, unless prior approval has been granted by the administrator before the course work was begun.

- A. A student who successfully completes college courses may receive high school credit (i.e., dual credit) provided:
1. The student is in good academic standing.
  2. The course is approved in advance by the student's school counselor and the high school principal or designee.
  3. The student assumes responsibility for all tuition, fees, materials, and transportation.
  4. A maximum of six (6) courses from an institution approved by the principal or designee may be counted toward the requirements for a student's high school graduation.
  5. Grades earned in college courses will not count toward a student's grade point average (GPA) or eligibility for athletic and extracurricular activities.

## COLLEGE IN THE HIGH SCHOOL

Marple Newtown High School (MNHS), in collaboration with Delaware County Community College (DCCC), established a College in the High School Program. MNHS offers English Composition I/ENG100 due to its partnership with DCCC. Please view the English section of the course selection guide to obtain a course description.

## MARKING SYSTEM

Grades for full year courses are as follows:

First Marking Period.....	22.5%
Second Marking Period .....	22.5%
Third Marking Period .....	22.5%
Fourth Marking Period .....	22.5%
Final Examination.....	10%

Grades for semester courses are calculated as follows:

First Marking Period .....	40%
Second Marking Period.....	40%
Examination.....	20%

Other grade designations include:

P = Pass  
F = Fail  
I = Incomplete  
M = Medical  
WP = Withdraw Passing  
WF = Withdraw Failing

### MNHS

#### Grading Scale

A+	=	98 -100
A	=	94 - 97
A-	=	90 - 93
B+	=	87 - 89
B	=	83 - 86
B-	=	80 - 82
C+	=	77 - 79
C	=	73 - 76
C-	=	70 - 72
D+	=	67 - 69
D	=	63 - 66
D-	=	60 - 62
F	=	59 and below

### **CLASS RANK**

Beginning with the class of 2021, Marple Newtown High School will no longer be calculating class rank.

### **EARLY COLLEGE ADMISSIONS PROGRAM**

The regulations of the Pennsylvania State Board of Education include a reference to high school students and early college admission. The regulations cite that high school students may enroll (part-time) in college with the approval of the high school principal. The regulations also indicate that exceptionally able students may leave high school prior to the senior year to attend approved colleges full-time at the discretion of the school district. The high school diploma shall be awarded to these students upon successful completion of the freshman year of college.

Since the opportunity for a high school education comes only once, the high school administration feels that the high school experience should be a full, four-year experience. However, realizing that individual needs are equally important, the high school administration also feels that an alternative such as the early college admissions program has merit.

### **PROCEDURE:**

A student may receive a Marple Newtown High School diploma through participation in the early college admissions program provided that:

- The student is accepted for early admission to an accredited college prior to high school graduation.
- A written request by the student and his/her parent/guardian is made to and approved by the high school principal. Evidence that the student has been accepted by an accredited college must accompany the request. A copy of the student's program for the first year of college must also be forwarded to the high school principal.
- Requests for early college admissions should be made as soon as all above items are completed.
- At the conclusion of a full year of study (senior year) or a semester of study (second semester of senior year) and prior to high school graduation, the students must have forwarded to the high school an official college transcript indicating that the student has successfully completed a year or a semester of college work. The transcript will become a part of the student's high school permanent record.

## Scheduling Worksheets

<b>SCHEDULING WORKSHEET FOR INCOMING FRESHMAN YEAR 2021-2022</b>	<b>STUDENT'S NAME</b> <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/>
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Teacher Signature	Subject	Course Recommendation
	<b>Health and Physical Ed</b> <small>Both Required For Graduation</small>	✓ 0460 - Physical Education ✓ 0461 - Health – 9
	<b>English</b> <small>Required Course For Graduation</small>	1410 - English 9: Literary Genres – Honors* 1420 - English 9: Literary Genres – College Prep 1430 - English 9: Literary Genres – Core 1440 - English 9: Literary Genres – Direct Instruction●
	<b>Reading</b>	1441 - Reading – Direct Instruction● 1830 - Reading Strategies
	<b>Social Studies</b> <small>Required Course For Graduation</small>	2410 - World Civilizations & Cultures I – Honors* 2420 - World Civilizations & Cultures I – College Prep 2430 - World Civilizations & Cultures I – Core 2415 - Human Geography – AP*
	<b>Math</b> <small>Required Course For Graduation</small>	3420 - Algebra I – College Prep 3430 - Algebra I – Core 3440 - Algebra I – Part A – Direct Instruction● 3510 - Geometry – Honors* 3520 - Geometry – College Prep 3530 - Geometry – Core 3541 - Geometry – Direct Instruction● 3610 - Algebra II/Trigonometry – Honors* 3630 - Algebra II – Core 3640 - Algebra II – Direct Instruction
	<b>Science</b> <small>Required Course For Graduation</small>	4410 - Integrated Science – Honors* 4420 - Integrated Science – College Prep 4430 - Integrated Science – Core 4510 - Biology – Honors* 4511 - Biology – Pre-AP*
	<b>World Language</b> <small>1 Credit Required For Graduation</small>	5320 - Spanish I 5420 - Spanish II 5520 - Spanish III 5620 - Spanish IV 5610 - Spanish IV – Honors* 5321 - French I 5421 - French II 5521 - French III 5621 - French IV 5611 - French IV – Honors*
	<b>Special Education</b> <small>IEP Required</small>	8840/8841 – Behavioral Academic Support● 8842/8844 – Guided Support● 8845/8846 – Social Academic Support ●
	<b>Electives</b>	1 <sup>st</sup> Choice # _____ Course Name: _____ 2 <sup>nd</sup> Choice # _____ Course Name: _____ 3 <sup>rd</sup> Choice # _____ Course Name: _____ 4 <sup>th</sup> Choice # _____ Course Name: _____ 5 <sup>th</sup> Choice # _____ Course Name: _____ 6 <sup>th</sup> Choice # _____ Course Name: _____ 7 <sup>th</sup> Choice # _____ Course Name: _____ 8 <sup>th</sup> Choice # _____ Course Name: _____

✓ = Required course for graduation    \*Honors classes are Weighted Courses    ●Requires an IEP

**No changes to a student's course requests will be considered after March 26, 2021.**

Student Signature \_\_\_\_\_ Date \_\_\_\_\_

## Scheduling Worksheets

<b>SCHEDULING WORKSHEET FOR FRESHMAN INTO SOPHOMORE YEAR 2021-2022</b>	<b>STUDENT'S NAME</b> <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/>
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Subject	Course Number	Course Name	Sem	Credit
English	✓		2	1.0
Reading			2	1.0
Social Studies	✓		2	1.0
Math	✓		2	1.0
Science	✓		2	1.0
World Language	★		2	1.0
Physical Education	✓		1	0.5
Health II	✓ 0561		1	0.5
BTE	★		1	0.5
VPA	★		1	0.5
Career Pathways	✓ 9599		1	0.5
Elective				
Elective				
Elective				
Elective				
Elective				
Elective				
Elective				
Elective				

✓ = Required course for graduation

★ = 1.0 credit required for graduation

**ALTERNATES:**

1<sup>st</sup> Choice – Course # \_\_\_\_\_ Name: \_\_\_\_\_

2<sup>nd</sup> Choice – Course # \_\_\_\_\_ Name: \_\_\_\_\_

3<sup>rd</sup> Choice – Course # \_\_\_\_\_ Name: \_\_\_\_\_

*No changes to a student's course requests will be considered after March 26, 2021.*

Student Signature \_\_\_\_\_ Date \_\_\_\_\_

## Scheduling Worksheets

<b>SCHEDULING WORKSHEET FOR SOPHOMORE INTO JUNIOR YEAR 2021-2022</b>	<b>STUDENT'S NAME</b> <hr style="border: 0; border-top: 1px solid black; margin: 5px 0;"/>
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Subject	Course Number	Course Name	Sem	Credit
English	✓		2	1.0
Reading			2	1.0
Social Studies	✓		2	1.0
Math	✓		2	1.0
Science	✓		2	1.0
World Language	★		2	1.0
Physical Education	✓		1	0.5
BTE	★		1	0.5
VPA	★		1	0.5
Junior Initiative	! 9600		1	0.5
Elective				
Elective				
Elective				
Elective				
Elective				
Elective				
Elective				
Elective				

✓ = Required course for graduation    ★ = 1 credit required for graduation    ! = Required of all juniors

**ALTERNATES:**

1<sup>st</sup> Choice – Course # \_\_\_\_\_ Name: \_\_\_\_\_  
 2<sup>nd</sup> Choice – Course # \_\_\_\_\_ Name: \_\_\_\_\_  
 3<sup>rd</sup> Choice – Course # \_\_\_\_\_ Name: \_\_\_\_\_

*No changes to a student's course requests will be considered after March 26, 2021.*

**Student Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

## Scheduling Worksheets

<b>SCHEDULING WORKSHEET FOR JUNIOR INTO SENIOR YEAR 2021-2022</b>	<b>STUDENT'S NAME</b> _____
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Subject	Course Number	Course Name	Sem	Credit
English	✓		2	1.0
Reading			2	1.0
Social Studies	✓		2	1.0
Math	▪		2	1.0
Science	▪		2	1.0
World Language	★		2	1.0
Physical Education	✓		1	0.5
BTE	★		1	0.5
VPA	★		1	0.5
Senior Project	! 9700		1	1.0
Elective				
Elective				
Elective				
Elective				
Elective				
Elective				
Elective				
Elective				

✓ = Required course for graduation   ★ = 1.0 credit required for graduation   ▪ = Recommended   ! = Required of all seniors

**ALTERNATES:**

1<sup>st</sup> Choice – Course # \_\_\_\_\_ Name: \_\_\_\_\_  
 2<sup>nd</sup> Choice – Course # \_\_\_\_\_ Name: \_\_\_\_\_  
 3<sup>rd</sup> Choice – Course # \_\_\_\_\_ Name: \_\_\_\_\_

*No changes to a student's course requests will be considered after March 26, 2021.*

**Student Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

# 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup> Grade Electives

Dept	Course Number	Elective	Grade	BTE	Arts	Credits
Health and Physical Ed	0560	General Physical Ed	10, 11, 12			0.5
	0561	Health II	10, 11, 12			0.5
	0870	Strength Training I	10, 11, 12			0.5
	0871	Strength Training II	10, 11, 12			0.5
	0872	Life Guard/First Aid	10, 11, 12			0.5
	0874	Circuit Training	10, 11, 12			0.5
	0875	Yoga	10, 11, 12			0.5
	0892	Cardio Training	10, 11, 12			0.5
	0893	Nets	10, 11, 12			0.5
	0895	Recreational PE	10, 11, 12			0.5
	0671	Advanced Team Sports	11, 12			0.5
	0771	PE Senior Leader	12			0.5
English	1870	Poetry	9, 10, 11, 12		X	0.5
	1871	Theater as Living Arts	9, 10, 11, 12		X	0.5
	1872	Cinema Dev & Appre	9, 10, 11, 12		X	0.5
	1873	Speech	9, 10, 11, 12			0.5
	1874	Journalism	9, 10, 11, 12			0.5
	1875	Creative Writing	9, 10, 11, 12		X	0.5
	1876	Ancient Greek Lit	9, 10, 11, 12			0.5
	1877	Horror Literature	9, 10, 11, 12			0.5
	1878	Women's Lit of Amer	9, 10, 11, 12			0.5
	1884	Skills for Test Taking	10, 11, 12			0.5
Social Studies	2810	Psychology - AP	11, 12			1.0
	2870	Sociology	10, 11, 12			0.5
	2871	Psychology	10, 11, 12			0.5
	2872	America's Civil War	9, 10, 11, 12			0.5
	2873	WWII and Vietnam	9, 10, 11, 12			0.5
	2874	International Relations	9, 10, 11, 12			0.5
	2875	Civil Rights Movement	9, 10, 11, 12			0.5
	2876	America and Its Courts	9, 10, 11, 12			0.5
	2877	Presidents as People	9, 10, 11, 12			0.5
	2878	Leadership & Character	9, 10, 11, 12			0.5
Math	These electives can fulfill the 7 <sup>th</sup> credit requirement for math/science					
	3717	AP Comp Sci Principles	9, 10, 11,			0.5
	3721	Trigonometry	10, 11, 12			0.5
	3722	Intro to Statistics	10, 11, 12			0.5
	3723	Statistics (Honors)	10, 11, 12			1.0
	3724	Math for Life and Work	9, 10, 11, 12			0.5
	3725	Personal Finance	9, 10, 11, 12			0.5
	3726	Logic	10, 11, 12			0.5
	These electives do not fulfill the 7 <sup>th</sup> math/science credit requirement					
	3716	Intro to Java Programming	9, 10, 11, 12	X		0.5
Science	3770	Intro to Python Programming	10, 11, 12			0.5
	3773	Skills for Test Taking	10, 11, 12	X		0.5
	These electives can fulfill the 7 <sup>th</sup> credit requirement for science/math					
	4870	Wildlife Conservation	10, 11, 12			0.5
	4871	Environmental Science	11, 12			0.5
	4872	Forensic Science	11, 12			0.5
	4873	Human Body Systems	11, 12			1.0

Dept	Course Number	Elective	Grade	Credits
Business and Technology Education	6460	Digital Info Tech	9, 10, 11, 12	0.5
	6461	Intro to Software Dev	9, 10, 11, 12	0.5
	6462	Comp Sys & Network I	9, 10, 11, 12	0.5
	6463	Comp Sys & Network II	9, 10, 11, 12	0.5
	6560	Game Development I	10, 11, 12	0.5
	6561	Game Development II	10, 11, 12	0.5
	6562	Robotics	10, 11, 12	0.5
	6563	STEM Rocks	10, 11, 12	0.5
	6770	Child Development	9, 10, 11, 12	0.5
	6771	Preschool Lab	10, 11, 12	0.5
	6780	Culinary Arts I	9, 10, 11, 12	0.5
	6781	Culinary Arts II	10, 11, 12	0.5
	6782	Culinary Arts III	11, 12	0.5
	6860	Intro to Engineering Design	9, 10, 11, 12	0.5
	6861	Principles of Engineering	9, 10, 11, 12	0.5
	6863	Introduction to Electronics	9, 10, 11, 12	0.5
	6865	Video Production I	9, 10, 11, 12	0.5
	6866	Video Production II	9, 10, 11, 12	0.5
	6867	Broadcasting	10, 11, 12	1.0
	6870	Graphic Design I	9, 10, 11, 12	0.5
	6871	Graphic Design II	9, 10, 11, 12	0.5
	6874	Architectural Design	9, 10, 11, 12	0.5
	6972	Accounting	9, 10, 11, 12	0.5
	6973	Marketing	9, 10, 11, 12	0.5
	6974	Intro to Business	9, 10, 11, 12	0.5
Visual and Performing Arts	6889	Photography Then and Now	9, 10, 11, 12	0.5
	6890	Photography I	9, 10, 11, 12	0.5
	6891	Photography II	9, 10, 11, 12	0.5
	6892	Photography III	10, 11, 12	0.5
	6893	Photography IV	11, 12	0.5
	6894	Digital Image I	9, 10, 11, 12	0.5
	6895	Digital Image II	9, 10, 11, 12	0.5
	6896	Digital Image III	10, 11, 12	0.5
	6897	Digital Image IV	11, 12	0.5
	7560	Piano I	9, 10, 11, 12	0.5
	7561	Piano II	9, 10, 11, 12	0.5
	7562	Guitar I	9, 10, 11, 12	0.5
	7563	Guitar II	9, 10, 11, 12	0.5
	7810	Music Theory - AP	10, 11, 12	1.0
	7870	Music Theory	9, 10, 11, 12	0.5
	7874	Amer Music Theater	9, 10, 11, 12	0.5
	7880	Band – Brass	9, 10, 11, 12	1.0
	7881	Band – Percussion	9, 10, 11, 12	1.0
	7882	Band – Woodwind	9, 10, 11, 12	1.0
	7883	Choir	9, 10, 11, 12	1.0
	7885	Orchestra	9, 10, 11, 12	1.0
	7892	Music Technology I	9, 10, 11, 12	0.5
	7893	Music Technology II	10, 11, 12	0.5
	7974	Music Technology III	10, 11, 12	0.5
	7910	AP Studio Art - Draw	11, 12	1.0
	7911	AP Studio Art - 3D	11, 12	1.0
	7912	AP Studio Art - Photo	11, 12	1.0
	7913	AP Studio Art - Digital	11, 12	1.0
	7915	AP 2-D Art and Design	12	1.0
	7970	Drawing and Painting	9, 10, 11, 12	0.5
	7971	Visual Art	9, 10, 11, 12	0.5
	7972	Decor & Funct Arts	9, 10, 11, 12	0.5
	7973	Three Dim Design	9, 10, 11, 12	0.5
	7975	Illust & Cartoon I	9, 10, 11, 12	0.5
	7976	Illust & Cartoon II	10, 11, 12	0.5
	7977	Unified Drawing and Painting	10, 11, 12	0.5
	7980	Studio Art I	9, 10, 11, 12	1.0
	7981	Studio Art II	10, 11, 12	1.0
	7982	Studio Art III	11, 12	1.0
	7991	Ceramics I	9, 10, 11, 12	0.5
	7992	Ceramics II	9, 10, 11, 12	0.5

## 9<sup>th</sup> Grade Electives

Dept	Course Number	Elective	Grade	BTE	Arts	Credits
Business and Technology Education	6460	Digital Info Tech	9, 10, 11, 12			0.5
	6461	Intro to Software Dev	9, 10, 11, 12			0.5
	6462	Comp Sys & Network I	9, 10, 11, 12			0.5
	6463	Comp Sys & Network II	9, 10, 11, 12			0.5
	6770	Child Development	9, 10, 11, 12			0.5
	6860	Intro to Engineering Design	9, 10, 11, 12			0.5
	6861	Principles of Engineering	9, 10, 11, 12			0.5
	6863	Intro to Electronics	9, 10, 11, 12			0.5
	6865	Video Production I	9, 10, 11, 12			0.5
	6866	Video Production II	9, 10, 11, 12			0.5
	6870	Graphic Design I	9, 10, 11, 12			0.5
	6871	Graphic Design II	9, 10, 11, 12			0.5
	6874	Architectural Design	9, 10, 11, 12			0.5
	6972	Accounting	9, 10, 11, 12			0.5
	6973	Marketing	9, 10, 11, 12			0.5
	6974	Intro to Business	9, 10, 11, 12			0.5
English	1870	Poetry	9, 10, 11, 12		X	0.5
	1871	Theater as Living Arts	9, 10, 11, 12		X	0.5
	1872	Cinema Dev & Appreciation	9, 10, 11, 12		X	0.5
	1873	Speech	9, 10, 11, 12			0.5
	1874	Journalism	9, 10, 11, 12			0.5
	1875	Creative Writing	9, 10, 11, 12		X	0.5
	1876	Ancient Greek Lit	9, 10, 11, 12			0.5
	1877	Horror Literature	9, 10, 11, 12			0.5
	1878	Women's Lit of Amer	9, 10, 11, 12			0.5
Social Studies	2872	America's Civil War	9, 10, 11, 12			0.5
	2873	WWII and Vietnam	9, 10, 11, 12			0.5
	2874	International Relations	9, 10, 11, 12			0.5
	2875	Civil Rights Movement	9, 10, 11, 12			0.5
	2876	America and Its Courts	9, 10, 11, 12			0.5
	2877	Presidents as People	9, 10, 11, 12			0.5
	2878	Leader & Character	9, 10, 11, 12			0.5
Math	3716	Intro to Java Programming	9, 10, 11, 12	X		0.5
	3717	AP Comp Sci Principles	9, 10, 11, 12			0.5
	3724	Math for Life and Work	9, 10, 11, 12			0.5
	3725	Personal Finance	9, 10, 11, 12			0.5
	3770	Intro to Python Programming	9, 10, 11, 12	X		0.5

Dept	Course Number	Elective	Grade	Credits
Visual and Performing Arts	6889	Photography Then/Now	9, 10, 11, 12	0.5
	6890	Photography I	9, 10, 11, 12	0.5
	6891	Photography II	9, 10, 11, 12	0.5
	6894	Digital Imaging I	9, 10, 11, 12	0.5
	6895	Digital Imaging II	9, 10, 11, 12	0.5
	7560	Piano I	9, 10, 11, 12	0.5
	7561	Piano II	9, 10, 11, 12	0.5
	7562	Guitar I	9, 10, 11, 12	0.5
	7563	Guitar II	9, 10, 11, 12	0.5
	7870	Music Theory	9, 10, 11, 12	0.5
	7874	Amer Music Theater	9, 10, 11, 12	0.5
	7880	Band – Brass	9, 10, 11, 12	1.0
	7881	Band – Percussion	9, 10, 11, 12	1.0
	7882	Band – Woodwind	9, 10, 11, 12	1.0
	7883	Choir	9, 10, 11, 12	1.0
	7885	Orchestra	9, 10, 11, 12	1.0
	7892	Music Technology I	9, 10, 11, 12	0.5
	7893	Music Technology II	10, 11, 12	0.5
	7974	Music Technology III	10, 11, 12	0.5
	7971	Visual Art	9, 10, 11, 12	0.5
	7972	Decor & Functional Arts	9, 10, 11, 12	0.5
	7973	Three Dim Design	9, 10, 11, 12	0.5
	7975	Illustration & Cartoon I	9, 10, 11, 12	0.5
	7980	Studio Art I	9, 10, 11, 12	1.0
	7991	Ceramics I	9, 10, 11, 12	0.5
	7992	Ceramics II	9, 10, 11, 12	0.5

### Note:

**In the Visual and Performing Arts department, Studio Art I 7980 requires teacher recommendation.**

**Please check the course guide for pre-requisites before scheduling the following courses:  
Principles of Engineering 6861, Intro to Electronics 6863, Architectural Design 6874, Intro to Java Programming 3716, Intro to Python Programming 3770 and Personal Finance 3725.**