PCSD

Parma City School District

NORMANDY ~ VALLEY FORGE

2026-2027

High School Course Guide

440/842-5300

www.parmacityschools.org

7377 Chateau Dr 44130

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Thank you to the Teaching Staff, Counselors, and Administrators who prepared the Parma City School District High School Course Guide. Every effort has been made to provide an accurate and complete document. This document is in alignment with the Parma City School District Board of Education policies at the time of publication. Policies, procedures, rules, information, and guidelines in this document are subject to changes in Board of Education Policy, Ohio Department of Education and Workforce policy, Ohio Revised Code, United States federal law, changes to which may be beyond the scope of the PCSD to control. Phone numbers, website information, and other information is current at the time of publication and may change without notice. In the event that any inaccuracies are present in this document, the administration reserves the right to act in good faith to ensure all school functions are successfully administered.

PCSD
Parma City School District

Office of the Superintendent
7377 Chateau Drive Parma, Ohio 44130
440-885-8786
www.parmacityschools.org/superintendent

Dear Parent or Guardian:

This course guide is designed to support students and parents/guardians as they plan an appropriate course of study at the high school level. It outlines the full range of courses offered throughout Parma City Schools and serves as a resource for making informed academic decisions.

Course selection is an important part of a student's four-year plan and plays a key role in preparing for future goals, whether that includes college, career, or technical pathways. Students are encouraged to work closely with their parents/guardians, teachers, and school counselors as they select courses for the coming school year and consider long-term academic and career plans.

We encourage families to review this guide together and develop a tentative schedule prior to meeting with a school counselor. Our counselors support students throughout the registration process and provide guidance to help ensure course selections align with individual interests, strengths, and goals.

Parents and guardians with questions about course offerings are encouraged to contact their school counselor. We view the registration process as a partnership among students, families, and schools, working together to create schedules that provide each student with meaningful and engaging educational opportunities during their high school year.

Sincerely,

Scott J. Hunt, EdD
Superintendent

Dr. Scott J. Hunt- Superintendent
Dr. Amy Cruse- Assistant Superintendent
Lisa Franke- Executive Assistant

Sean Nuccio-Treasurer/CFO
Amy Popik- Assistant Treasurer
Melissa Evancho- Administrative Assistant

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PCSD
Parma City School District
Board of Education
7377 Chateau Dr. Parma, Ohio 44130
Phone: 440.842.5300 | Fax: 440.885.8413

Dear Parent or Guardian

The Board of Education believes in providing young people with a sound educational program that combines skill development with the opportunity to select courses that will prepare them for a successful future. The course offerings listed in this registration guide reflect the philosophy and goals of the Board of Education and the school district. This guide can serve as a blueprint for outlining your child's educationa l career. By studying it carefully, you will understand how courses are arranged, how one course builds upon another, and how the overall plan meets the needs of students attending the Parma City School District.

All students are encouraged to take a variety of courses and enjoy a full high school experience. Please contact your child's school counselor if you have any questions regarding the registration process.

Sincerely,

Parma City School District Board of Education

Dr. Scott J. Hunt- Superintendent
Dr. Amy Cruse- Assistant Superintendent
Lisa Franke- Executive Assistant

Sean Nuccio-Treasurer/CFO
Amy Popik- Assistant Treasurer
Melissa Evancho- Administrative Assistant

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TABLE OF CONTENTS

9th-12th Grade Offerings

Graduation Requirements

Credits (Course Completion) 1
Demonstrating Competency 2
Demonstrating Readiness (Seals) 2

Academic Information

Advanced Placement 6
College Credit Plus (CCP) 7
Credit Flexibility 7
Honors Program 7
Academic Credit 8
Course Load 8
Grade Placement 8
Rank-in Class (RIC) 8
Regular and Honors Diplomas 9
Graduation Plan 9
Fees 10
Physical Education Waiver Considerations 10
Course Request Registration Steps 10
Schedule Changes 10





Course Descriptions

Art 11
Business and Computer Electives 15
Career & Technical Education 16
English 36
Family & Consumer Sciences 40
Health & Physical Education 42
Industrial Education 46
Mathematics 47
Music 53
Science 56
Social Studies 62
World Languages 66



GRADUATION REQUIREMENTS



To be eligible for graduation and to receive a Parma City School District High School diploma, a student must have earned a minimum of 20 credits and successfully completed State of Ohio Graduation Requirements. The Ohio Graduation Requirements consist of three key components: Course Completion, Demonstrating Competency, and Demonstrating Readiness.

1. Credits (Course Completion)

Students will satisfy Ohio's curriculum requirements and any additional local requirements. Students will complete the state minimum 20 credits, with specific credits required in each content area.

2. Demonstrating Competency

Students will demonstrate competency in the foundational areas of English language arts and mathematics or through alternative demonstrations, which include College Credit Plus, career-focused activities, their ACT or SAT scores, or military enlistment.

3. Demonstrating Readiness (Seals)

Students will demonstrate readiness for their post-high school paths by earning two diploma seals that allow them to demonstrate important foundational and well-rounded academic and technical knowledge, professional skills, and leadership and reasoning skills.

Credits (Course Completion)

GRADUATION REQUIREMENTS - 20 CREDITS MINIMUM		
Credits	**Area**	**Required**
4	ENGLISH	English I, II, III, IV
4	MATHEMATICS	4 credits of mathematics (must include Algebra II or equivalent)
3	SOCIAL STUDIES	1 credit in U.S. History 1 credit in World History 1 credit in U.S. Government
3	SCIENCE	1 credit in Biology 1 credit in Physical Science 1 credit in an additional science
.5	HEALTH	Required for graduation
.5	PHYSICAL EDUCATION	1/4 credit for PE Survey and 1/4 credit PE course*
5	ELECTIVES	See course guide for options. 1 credit must be in the area of Fine Arts** .5 credit in Financial Literacy

***Students who opt for the PE Waiver must also complete 1/2 credit in a content area other than physical education to fulfill the graduation requirement.**

****Career & Technical Education students that successfully complete at least 4 units of CTE program courses are exempt.**

Demonstrating Competency

Graduation Requirements

Students are required to take six End of Course exams throughout high school, including Algebra, Geometry, English Language Arts II, Biology, U.S. History, and Government. To graduate, students must earn a "competency" score on the English Language Arts II and Algebra I end-of-course tests or complete other options. Students not earning competency scores on the first attempt must be offered appropriate remediation and support and retake the relevant test at least once. In lieu of attaining competency scores on the state tests, students can choose between four other ways to demonstrate competency following remediation and second test attempts. The alternative ways to demonstrate competency are as follows: College Credit Plus, ACT or SAT, Career Experience and Technical Skill, and Military Enlistment. See the Ohio Department of Education and Workforce website for requirements for each alternative option. https://education.ohio.gov

Passing/Competency Score	Test
684	Algebra I
684	English II

Demonstrating Readiness (Seals)

In addition to fulfilling curriculum requirements and meeting competency requirements, students must also show they are prepared for their next steps after high school. Students will demonstrate readiness by earning at least two diploma seals, one of which must be state-defined. There are 12 Graduation Seal options for students to demonstrate readiness for careers, college, or the military (3 PCSD locally defined seals and 9 state-defined seals).

- Community Service Seal (Local)
- Fine and Performing Arts Seal (Local)
- Student Engagement Seal (Local)
- Citizenship Seal (Ohio)
- College-Ready Seal (Ohio)
- Industry-Recognized Credential Seal (Ohio)
- Military Enlistment Seal (Ohio)
- Ohio Means Jobs Readiness Seal (Ohio)
- Science Seal (Ohio)
- Seal of Biliteracy (Ohio)
- Technology Seal (Ohio)
- Honors Diploma Seal (Ohio) 5 Options:
  - Academic, Career Tech, STEM, Arts, Social Sciences & Civic Engagement

Graduation
Requirements continued

Locally-Defined Diploma Seals	Requirements
Community Service Seal	40 hours of community service with specific documentation in the Voluntary Community Service Time Log that outlines volunteer hours, date(s), a description, name of the business/organization, and the supervisor's signature. Students submit completed logs to their counselor. Time logs are available online and in Student Services. It is recommended that students complete at least 10 hours of community service each year of high school, totaling 40 hours by January 15th of their senior year.
Fine and Performing Arts Seal	Earn 3 high school credits in the Fine Arts discipline during grades 9 - 12 and complete written reflection.
Student Engagement Seal	Participate in at least 4 extra curricular PCSD activities (approved by Counselor) during their high school career and meet the following criteria in a non-academic course: • While enrolled in grades 9-12, students will participate in at least 4 total extracurricular activities offered by PCSD during their high school career. *(Students should choose extracurricular activities from their school-approved Student Activity list). • Students must attend at least 80% of activities for chosen extracurricular, including practices and games if applicable.







Graduation Requirements continued

State-Defined Diploma Seals	Requirements
Citizenship Seal	A student can: 1. Earn a score of Proficient/3 or higher on Ohio's State Test in both the American history and American government; 2. Earn a final course grade that is equivalent to a "B" or higher in American History and/or American Government 3. Earn a score of 2 or higher on an Advanced Placement or International Baccalaureate test; orEarn a “B” or higher in appropriate College Credit Plus courses.
College-Ready Seal	Earn remediation-free cores on the ACT or SAT. Visit the Department's website to see current remediation-free scores.
Industry-Recognized Credential Seal	Earn a 12-point approved industry-recognized credential or group of credentials totaling 12 points in a single career field.
Military Enlistment Seal	Provide evidence that a student has enlisted in a branch of the U.S. Armed Forces; or Participate in an approved JROTC program.
Ohio Means Jobs Readiness Seal	Meet the requirements and criteria established for the readiness seal. including demonstration of work-readiness and professional competencies.
Science Seal	A student can: 1. Earn a score of 3 or higher on Ohio’s State Test in Biology; 2.Earn a final course grades that is equivalent to a "B" or higher in an advanced science course. 3. Earn a score of a 2 or higher on an appropriate Advanced Placement science test; or Earn a “B” or higher in a College Credit Plus science course.
Seal of Biliteracy	Meet the requirements and criteria, including proficiency requirements on assessments in a world language and English.
Technology Seal	A student can: Earn a final course grade that is equivalent to a "B" or higher in an appropriate class taken through the College Credit Plus program or complete a course offered through the district that meets the Technology Seal guidelines as indicated by the Ohio Department of Education. Courses that provide students with opportunity to earn a Technology Seal are indicated in the registration guide by Tech Seal Logo.
Honors Diploma Seal	Earn one of five Honors Diplomas as outlined on page 5: 1. Academic Honors Diploma 2. Career-Tech Honors Diploma 3. STEM Honors Diploma 4. Arts Honors Diploma 5. Social Science and Civic Engagement Honors Diploma

Honors Diploma Criteria

Subject	Academic Honors Diploma	Career-Technical Honors Diploma	STEM Honors Diploma	Arts Honors Diploma (includes dance, drama, theatre, music, visual art)	Social Science & Civic Engagement Honors Diploma
English	4 Units	4 Units	4 Units	4 Units	4 Units
Mathematics	4 units, Algebra I, Geometry, Algebra II or equivalent and one other higher level course	4 units, Algebra I, Geometry, Algebra II or equivalent and one other higher level course	4 units, Algebra I, Geometry, Algebra II or equivalent and one other higher level course	4 units, Algebra I, Geometry, Algebra II or equivalent and one other higher level course	4 units, Algebra I, Geometry, Algebra II or equivalent and one other higher level course
Science	4 units, including one unit of advanced science	3 units	4 units, including one unit of advanced science	3 units, including two units of advanced science	3 units
Social Studies	4 Units	3 Units	3 Units	3 Units	5 Units
World Languages	3 units of one world language, or no less than 2 units of each of two world languages studied	2 units of one world language studied	3 units of one world language, or no less than 2 units of each of two world languages studied	3 units of one world language, or no less than 2 units of each of two world languages studied	3 units of one world language, or no less than 2 units of each of two world languages studied
Fine Arts	1 Unit	N/A	1 Unit	4 Units	1 Unit
Electives	N/A	4 units of Career-Technical minimum	2 units of additional STEM courses	Two units of Fine Arts (may overlap with general four units)	3 units with a focus in social sciences and/or civics
Grade Point Average	3.5 on a 4.0 scale (unweighted)	3.5 on a 4.0 scale (unweighted)	3.5 on a 4.0 scale (unweighted)	3.5 on a 4.0 scale (unweighted)	3.5 on a 4.0 scale (unweighted)
ACT/SAT Workkeys	27 ACT/ 1280 SAT	ACT: Score of 27 or higher, SAT: Score of 1280 or higher Workkeys: Earn a score of six or higher on all three sections of the WorkKeys assessment.	27 ACT/ 1280 SAT	27 ACT/ 1280 SAT	27 ACT/ 1280 SAT
Seal Requirement	Earn two additional seals, not including Honors Diploma Seal	Meet requirements to earn the Industry-Recognized Credential Seal or Technology Seal	Meet requirements to earn the Industry-Recognized Credential Seal or Fine Arts Seal	Meet local district requirements to earn the Fine Arts Seal	Meet local district requirements to earn the Community Service Seal
Experiential Learning	Field experience, OhioMeansJobs Readiness Seal, Portfolio, or Work-Based Learning	Field experience, OhioMeansJobs Readiness Seal, Portfolio, or Work-Based Learning	Field experience, OhioMeansJobs Readiness Seal, Portfolio, or Work-Based Learning	Field experience, OhioMeansJobs Readiness Seal, Portfolio, or Work-Based Learning	Field experience, OhioMeansJobs Readiness Seal, Portfolio, or Work-Based Learning

Academic Information

Advanced Placement

The **Advanced Placement Program (AP)** offers students the opportunity to participate in rigorous and demanding coursework that may allow the students to earn college credit. The students may earn this college credit or advanced standing with a sufficient score on the **AP** exam. **AP** courses have exceptionally high standards (as outlined by the College Board), require more in-depth study by students, and carry a weighted grade. These courses place a high degree of emphasis on the student's own self-motivation, study skills, and the ability to self-direct his/her own learning. Homework is generally assigned daily, and is more extensive than is assigned in Honors level courses. **AP** exams are given in May and contain multiple-choice and free-response questions. The exams include problem-solving and the use of other higher-level thinking skills. Students enrolled in AP courses are expected to take the AP exams. The AP exam fee is approximately $99. The district will cover most of the cost; students will pay $40 toward the exam fee. As with other fees assigned, students who have their fees waived due to their free/reduced lunch status will not pay the fees for the course or exam.

The following high school level classes will be offered this year as **AP** courses:

SUBJECT	ADVANCED PLACEMENT
ART	AP Drawing AP 2-D Art and Design AP 3-D Art and Design
CAREER & TECHNICAL	AP Biology / Biotechnology Honors AP Business and Personal Finance AP Computer Science Principles
ENGLISH	AP English III - Language and Composition AP English IV - Literature and Composition
MATHEMATICS	AP Calculus AB AP Statistics AP Pre-Calculus
MUSIC	AP Music Theory
SCIENCE	AP Chemistry AP Physics I : Algebra-Based AP Physics C: Mechanics AP Biology / Biotechnology Honors
SOCIAL STUDIES	AP European History AP Macro Economics/Micro Economics AP Psychology AP U.S Government and Politics AP U.S. History AP World History
WORLD LANGUAGES	AP French AP Spanish

Academic Information

College Credit Plus (CCP)

Students enrolled in certain college courses will be earning both college credit and high school credit simultaneously. There is no cost to the student to participate in this program. Students must meet certain criteria as established by the college to participate in this program. An informational night regarding College Credit Plus will take place in January. For more information about this program, please visit www.collegecreditplus.com. To obtain Parma City School District College Credit Plus forms, please visit the high school counseling department webpage found on our district website under each high school: https://sites.google.com/parmacityschools.org/highschoolcounseling/district/college-credit-plus
We offer the following CCP courses at the high school:
Valley Forge High School: English 1010, English 1020
Normandy High School: English 1010, English 1020, Chemistry 1300/130L, Chemistry 1310/131L
Course offerings are tentative and subject to change based on availability.

Credit Flexibility

Ohio school districts are required to offer students the opportunity to earn high school credit in ways other than traditional classroom seat time. Credit Flexibility is a student driven/student-owned study option that provides customized learning of standards focused on a student's interests and needs. Specifically, credit flexibility is a structured learning opportunity that allows students in grades 7-12 to demonstrate mastery of course standards through an approved plan with defined learning standards and goals, planned learning activities, and standards for evaluating student learning coordinated by a qualified educator.

To access credit flexibility information, guidelines, and the application, visit the high school counseling department webpage found on our district website under each high school: or by following this link: https://sites.google.com/parmacityschools.org/highschool counseling/district/credit-flexibility
Applications for first semester are due to the student's counselor by April 1st of the previous school year. Applications for second semester are due October 15th of the current school year. All submitted applications will be reviewed by the building Credit Flexibility Committee.

Honors Program

The high school Honors Program presents students with the opportunity for in-depth study and research in the areas of English, Mathematics, Social Studies, Science, and World Language. The Honors Program is considered rigorous, and students should be prepared for the additional work and scholarly expectations. Since Honors courses have standards that are higher than in regular courses, students receive a weighted grade which means one additional point for the class grade given when calculating the GPA. Students interested in pursuing the Honors Program should see their counselor and discuss this option with their subject-area teacher.

The following high school level classes will be offered this year as Honors courses:

SUBJECT	HONORS
ENGLISH	Pre-AP English I Honors Pre-AP English II Honors
MATHEMATICS	Algebra I Honors Geometry Honors Algebra II Honors
WORLD LANGUAGE	French IV Honors Spanish IV Honors
SCIENCE	Biology I Honors Chemistry Honors Engineering Physics Honors
SOCIAL STUDIES	U.S. History - 9 Honors

Academic Information

Academic Credit

Academic Credit is awarded upon satisfactory completion of a course. Credit for semester courses is awarded at the end of the semester, and credit for yearlong courses is awarded at the end of the year. Partial credit is not awarded. To receive academic credit, students must earn a passing grade as the final grade in the course.

Course Load

The minimum student course load is 5 credits per year for all students. This minimum course load will keep students on track to earn the necessary 20 credits for graduation by the end of their senior year. Students are encouraged to explore the many opportunities offered by the Parma City School District and take classes beyond the minimum course load. Continuation high school and/or summer school coursework is in addition to the minimum number of credits needed per year. To maintain athletic eligibility, a student must carry a minimum of 5 classes (excluding physical education) each semester.

Grade Placement

High school students will be considered to be in the grade and class appropriate to the following designations:

9th Grade: 0-4.99 Credits earned
10th Grade: 5.0-9.99 Credits
11th Grade: 10.0-14.99 Credits
12th Grade: 15.00+ Credits

Rank-In-Class

A student's grade point average will be calculated by taking the final average grade for each course that is completed. The appropriate point value for each grade earned is assigned. This point value is then multiplied by the number of course credits. The points earned for all courses are totaled. This total is divided by the number of course credits earned, thus establishing the student's grade point average (GPA). The student's final rank-in-class will be determined by his/her grade point average at the end of the first semester of grade 12.





Diplomas

Regular Diplomas

According to state-established guidelines, the Parma City School District will be offering the opportunity to receive either a regular high school diploma or an honors diploma. The regular high school diploma will be granted to students who: (a) meet the Ohio Department of Education graduation requirements; or (b) meet the requirements for "Alternative Conditions for Eligibility for Diploma" as specified in Ohio Revised Code 3313.615 AND meet district requirements for course completion.

See pages 1-4 of this guide for details about the three areas required to earn a diploma:
1. Credits (Course Completion)
2. Demonstrating Competency
3. Demonstrating Readiness (Seals)

Honors Diplomas

High school students can gain state recognition for exceeding Ohio's graduation requirements through an honors diploma. To meet honors diploma requirements, students challenge themselves by taking and succeeding at high-level coursework and in real-world experiences.
Students have the opportunity to pursue one of five honors diplomas:

1. Academic Honors Diploma
2. Career Tech Honors Diploma
3. STEM Honors Diploma
4. Arts Honors Diploma (includes dance, drama/theatre, music and visual art)
5. Social Science and Civic Engagement Honors Diploma

See page 5 of this guide for details about the requirements of each Honors Diploma.

Graduation Plan

Every child in grades 9-12 will have a graduation plan that is updated yearly and communicated to parents/families. The graduation plan is connected to credits, competency, and readiness. The graduation plan can be viewed in Home Access Center (HAC).





Fees

The Parma City School District establishes a fee schedule for consumable items utilized in various courses. These fees are used to purchase items such as workbooks, paperback books, and supplies used by the student. No refund of fees will be given after the third week of any course. All students must pay outstanding fees prior to attending prom or commencement. If fees are not paid, students may not be permitted to purchase a parking permit.

Physical Education Waiver Considerations

The physical education waiver, as provided by the Ohio Department of Education, allows a student who has participated in two complete seasons of interscholastic high school athletics, cheerleading, or marching band the opportunity to explore additional coursework options. Students may earn the required ½ credit in content areas other than physical education to fulfill the physical education graduation requirement. While this waiver provides flexibility, maintaining regular physical activity and healthy movement remains an important consideration, as consistent exercise supports students' physical health, mental well-being, focus, and overall academic success.

Course Request Registration Steps

The Home Access Center (HAC) is the district's current online grade book for both parent and student use.

For the 2026 - 2027 School Year:

1. Students will enter their desired course requests for the next school year in HAC between **2/7/26 and 2/16/26.**
2. Counselors will meet with students to review online course requests in late February/early March. Counselors will ensure students have selected the proper courses and are on track to graduate.
3. After meeting with counselors, students should review final course requests with parents in HAC before the **counselor registration window closes on March 13, 2026.**
4. Every effort will be made to ensure that students are properly placed in classes that they select during the registration process. Minimal schedule changes will be made after the March deadline.

Schedule Changes

Every effort will be made to ensure that students are properly placed in classes which they select during the registration process. Students and parents should give serious consideration when initially selecting courses. Please make any schedule change requests in writing to the counselor. Final approval will need consent from the parent/guardian, counselor, and administrator.





ART COURSES



LEVEL 1

Art Foundations (Level 1)

Art Foundations is a one-credit, year-long survey course focusing on the process of making art by exposing students to the materials and methods of the studio artist. Students will explore both the art elements and principles by creating two- dimensional and three-dimensional artworks in a variety of mediums. This class is a prerequisite to taking other courses in the Art Department, and many of the projects will serve as introductions to those elective classes. **Students have the opportunity to earn a Fine and Performing Arts Seal.** **This Course is a prerequisite course to taking all other art courses starting with 2026 graduates and beyond.**	

Course No.	771
Grade	9-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	$25.00

LEVEL 2

3D ART I (Level 2 Course)

We don't just want products that work, people want products that look good. From coffee cups to cars, designers add style to objects we use everyday. Students will learn historic solutions to design problems using traditional materials and progress to creating their own solutions using modern technology. We would start with materials that could be manipulated by hand like ceramics, then move on to other materials such as textiles and finish with technologies such as 3D printing. **This class is a combination of the former ceramics and crafts classes. Students have the opportunity to earn a Fine and Performing Arts Seal.**	

Course No.	788
Grade	10-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Art Foundations
Fee	$25.00

ART COURSES



LEVEL 2

Ceramics I (Level 2)

This course is an exploration of ceramics. You will use a variety of hand-building and surface-decoration techniques to create original personal expressions. Using the potter's wheel to create hand-thrown objects may be introduced. Students have the opportunity to earn a Fine and Performing Arts Seal.	Course No. 780 Grade 10-12 Credit 1/2 Periods Per Week 5 Length of Course Semester Prerequisite Art Foundations Fee $20.00

Media Arts I (Level 2)

While visual arts focuses on mark-making by hand, Media Arts focus on capturing images by mechanical processes like photography. This course will focus on still images and can be comprised of images created by traditional photographic processes in the darkroom, move to digital photographs, and then focus on manipulating images in the computers. **This class is an expanded version of Photography. Students have the opportunity to earn a Fine and Performing Arts Seal.**	Course No. 790 Grade 10-12 Credit 1 Periods Per Week 5 Length of Course Year Prerequisite Art Foundations Fee $20.00

Visual Art I (Level 2)

Traditionally we created 2 dimensional works like drawing and painting by making marks on paper or canvas. In Visual Arts I we will continue to develop our drawing and painting skills using traditional mediums, but we will also experiment with technology to find new ways to make marks and alter our images**. Students have the opportunity to earn a Fine and Performing Arts Seal.**	Course No. 772 Grade 10-12 Credit 1 Periods Per Week 5 Length of Course Year Prerequisite Art Foundations Fee $25.00

ART COURSES



LEVEL 3

3D ART II (Level 3)

Again the theme focuses on form following function. Students will advance from hand building to techniques requiring more significant use of tools to create solutions. The focus materials could begin with materials like metals using saws and presses and lead up to technology like a laser cutter or C-N-C machine. This requires a greater level of craftsmanship and knowledge of tools. **This class is a combination of the former jewelry and crafts class. Students have the opportunity to earn a Fine and Performing Arts Seal.**

Course No.	789
Grade	11-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Art Foundations and 3D Art I
Fee	$25.00

Ceramics II (Level 3)

This course advances students' ceramic skills through complex techniques and projects. Building upon Ceramics I foundations, students will refine their hand-building expertise while developing proficiency on the potter's wheel. Students will create both functional and sculptural works that demonstrate technical mastery and creative vision. Students have the opportunity to earn a Fine and Performing Arts Seal.

Course No.	784
Grade	11-12
Credit	1/2
Periods Per Week	5
Length of Course	Semester
Prerequisite	Art Foundations and Ceramics I
Fee	$20.00

Media Arts II (Level 3)

While visual arts focus on mark-making by hand Media Arts, focus on capturing images by mechanical processes like photography. This change in this course will focus on dynamic moving images, through recording or generating in the computers. **Students have the opportunity to earn a Fine and Performing Arts Seal.**

Course No.	791
Grade	11-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Art Foundations and Media Arts I
Fee	$20.00

ART COURSES



LEVEL 3

Visual Arts II (Level 3)

A continuation of Visual Arts I we will continue to develop our drawing and painting skills using traditional and digital mediums. The focus will switch from individual projects to helping the students build a body of quality work that can be used for a portfolio. **Students have the opportunity to earn a Fine and Performing Arts Seal.**

Course No.	773
Grade	11-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Art Foundations and Visual Arts I
Fee	$20.00

LEVEL 4

Art Studio (Level 4)

This class is the culminating studio art experience. It is intended for those students who are seriously interested in the study of art.

You may need to purchase additional materials that go beyond the normal scope of the class. **Students have the opportunity to earn a Fine and Performing Arts Seal.**

Course No.	792
Grade	12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Teacher Recommendation
Fee	$25.00

AP Art and Design/AP Drawing (Level 4)

This class is the culminating studio art experience. It is intended for those students who are seriously interested in the study of art and the potential for college credit. An individualized course that you will select a type of formal portfolio:

- AP Drawing Portfolio with a concentration in drawing and painting
- AP 2-D Design Portfolio with a concentration in elements of principles and design

You may need to purchase additional materials that go beyond the normal scope of the class. **Students have the opportunity to earn a Fine and Performing Arts Seal.**

Course No.	773P
Grade	12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Teacher Recommendation
Fee	$65.00-Includes AP Fee

BUSINESS & COMPUTERS ELECTIVE COURSES



Accounting I

Accounting is the language of business. Not sure if accounting or finance is for you? Try out this ONE semester course. If you are sure a career in business, finance, or accounting is for YOU, this course is a MUST. This one-semester course will provide the basics of planning, recording, analyzing, and interpreting financial information. Students will master the concepts of debits and credits, analyze and record transactions, calculate payroll, and create financial statements that tells the story of a business's financial health. After completing this course, you will have an advantage when taking college accounting and possess the skills necessary for entry-level accounting and bookkeeping careers.	

Course No.	424
Grade	9-12
Credit	1/2
Periods Per Week	5
Length of Course	Semester
Prerequisite	None
Fee	None

Pathway to Success - Senior Only Credential

This senior year only, two semester elective course will help students meet the requirements for graduation and help them with the transition from high school to career or postsecondary education. Students will earn a 12 point industry credential through the RiseUp curriculum. They will earn the Ohio Means Job seal through project based learning. Students will also work on resume writing and interviewing skills and other career readiness activities. **This course will be taught at both Normandy and Valley Forge High Schools.**	

Course No.	461VA
Grade	12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	None

Information Technologies

This first course in the IT career field is designed to provide students with a working knowledge of computer concepts and essential skills necessary for work and communication in today's society. Students will learn safety, security, and ethical issues in computing and social networking. Students Length of Course Semester will also learn about input/output systems, computer hardware and operating systems, and office applications. **Students have the opportunity to obtain the Technology Seal through this course.**	

Course No.	304
Grade	9-12
Credit	1/2
Periods Per Week	5
Length of Course	Semester
Prerequisite	None
Fee	None

CAREER & TECHNICAL EDUCATION COURSES

Career Tech Locations

CTE PROGRAM LOCATIONS

NORMANDY

Auto Collision
Biotechnology/AP Biology
Carpentry
Computer Science
Cosmetology
Culinary Arts
Dental Technology
Digital Media Creative Arts
Engineering (PLTW)
Job Training
Marketing
Medical Professions
Networking & Advanced Comp.

VALLEY FORGE

Auto Service Technology
Biotechnology/AP Biology
Business & Financial Mgmt.
Computer Science
Education Professions
Engineering (PLTW)
Job Training
Marketing
Visual Communications
Welding

Note: *Shuttle buses are provided between buildings during the day for students who are taking a Career/Technical course that is not located at their home school.*

The Parma City School District is a comprehensive Career and Technical Education (CTE) Planning District, meaning students have the opportunity to apply to 18 CTE pathway programs that are housed within the two high schools. CTE programs offer students work-based and hands-on learning and the opportunity for college credits and certifications. For more information on CTE, please visit the following link:
https://www.parmacityschools.org/academics/career-and-technical-education

Note: College Credits are available through our CTE Programs through CTAG's, Advanced Placement and Articulation Agreements. CTAG credits are earned through passage of Webxam assessments, Advanced Placement credits are earned through passing the AP exams and these courses are weighted on a 5.0 scale. Please see pages 17-19 for info on which courses are weighted. Please see website for more information regarding Articulation Agreements for each program.

CAREER & TECHNICAL EDUCATION COURSES

CTE Course Breakdown by Program

Program:	Courses:	Credits:
Auto Collision I	ACT1 Collision Paint/Repair ACT1 Collision Structural Inspection/Repair ACT1 Collision NonStructural Inspection/Repair	1 credit 1 credit 1 credit
Auto Collision II	ACT2 Collision Electrical/Mechanical Systems ACT2 Transportation Capstone	1 credit 2 credits
Auto Service Technology I	AST1 Ground Transportation Maintenance AST1 Ground Transport Electrical/Electronics AST1 Automotive Braking Systems	1 credit 1 credit 1 credit
Auto Service Technology II	AST2 Automotive Steering/Suspension Systems AST2 Automotive Engine Performance AST2 Ground Transport Electrical/Electronics	1 credit 1 credit 1 credit
AP Biology/Biotechnology Honors	***Biotech Biochemistry of Health** ***Biotech Principles of Biomed Technology**	1 credit 1 credit
Business & Financial Mgmt I	Bus1 Mgmt Principles ***Bus1 Financial Acctg** Bus1 Finance Foundations	1 credit 1 credit 1 credit
Business & Financial Mgmt II	***Bus2 Financial Acctg** Bus2 Fundamentals of Financial Services ***Bus2 Managerial Accounting**	1 credit 1 credit 1 credit
Carpentry I	***Carp1 Carpentry/Masonry Tech Skills** Carp1 Structural Systems ***Carp1 Coverings-Finishes**	1 credit 1 credit 1 credit
Carpentry II	***Carp2 Plan Reading** ***Carp2 Construction Mgmt/Safety** Carp2 PreApprentice-Capstone	1 credit 1 credit 1 credit
Computer Science Pathway	Game Design Applications of Artificial Intelligence ***Digital Content Creation and Web Design** ***AP Computer Science Principles**	1 credit 1 credit 1 credit 1 credit
Cosmetology I	Cos1 Trichology Cos1 Haircutting/Styling Fundamentals	1 credit 3 credits
Cosmetology II	Cos2 Skincare Fundamentals/Enhancements Cos2 Salon Operations and Communications Cos2 Human Services Capstone	1 credit 1 credit 2 credits

***Bold Courses -** Weighted Course with College Credit Available

CAREER & TECHNICAL EDUCATION COURSES

CTE Course Breakdown by Program

Program:	Courses:	Credits:
Culinary Arts I	***Cul1 Food Production** ***Cul1 Hospitality Fundamentals** Cul1 Catering and Banquet Service Operations	2 credits 1 credit 1 credit
Culinary Arts II	Cul2 Contemporary Cuisine ***Cul2 Baking and Pastry Arts** Cul2 Hospitality/Tour Capstone ***Cul2 Restaurant Management**	1 credit 1 credit 1 credit 1 credit
Dental Technology I	***Dent1 Medical Terminology** ***Dent1 Dental Technologies** ***Dent1 Dental Radiography**	1 credit 1 credit 1 credit
Dental Technology II	Dent2 Oral Diagnosis and Treatment ***Dent2 Dental Radiography** Dent2 Medical Dental Office Technology	1 credit 1 credit 1 credit
Digital Media Creative Arts I	***TV1 Audio Broadcast** ***TV1 Multi-Media Web Production** ***TV1 Video Production**	1 credit 1 credit 1 credit
Digital Media Creative Arts II	TV2 Business of Arts and Communication TV2 Video Broadcast TV2 Arts and Communication Capstone	1 credit 1 credit 1 credit
Education Professions I	**Tchr1 Education Principles** Tchr1 Classroom Management Tchr1 Curriculum and Instruction for Teaching	1 credit 1 credit 1 credit
Education Professions II	***Tchr2 Child Adolescent Development** ***Tchr2 Communities, Schools, Stakeholders** Tchr2 Education and Training Capstone	1 credit 1 credit 1 credit
Engineering Pathway	***Intro to Engineering Design (IED)** Principles of Engineering ***Digital Electronics** Aerospace Engineering	1 credit 1 credit 1 credit 1 credit
Marketing Pathway	Sports & Entertainment Marketing Social Media Marketing ***Strategic Entrepreneurship** ***AP Business and Personal Finance**	1 credit 1 credit 1 credit 1 credit

***Bold Courses -** Weighted Course with College Credit Available

CAREER & TECHNICAL EDUCATION COURSES

CTE Course Breakdown by Program

Program:	Courses:	Credits:
Medical Professions I	***Med1 Health Information Tech** ***Med1 Medical Terminology** Med1 Principles/Practices Biomedical Technology	1 credit 1 credit 1 credit
Medical Professions II Biomedical	***Med2 Biotechnology for Health and Diseases** Med2 Human Anatomy and Physiology Med2 Genetics and Disease	1 credit 1 credit 1 credit
Medical Professions II Certified Nursing Assistant	Med2 Patient Care/Diagnostics ***Med2 Health Information Management** Med2 Allied Health	1 credit 1 credit 1 credit
Medical Professions II Exercise Science	***Med2 Exercise Science and Training** ***Med2 Fitness Evaluation and Assessment** Med2 Nutrition and Wellness	1 credit 1 credit 1 credit
Medical Professions II Medical Assisting	Med2 Nutrition and Wellness ***Med2 Health Information Management** Med2 Allied Health	1 credit 1 credit 1 credit
Networking and Cybersecurity I	***Net1 Network Management** ***Net1 Networking** ***Net1 Network Security**	1 credit 1 credit 1 credit
Networking and Cybersecurity II	***Net2 Cybersecurity** Net2 Defense and Reinforcement Net2 Testing and Response	1 credit 1 credit 1 credit
Visual Communications I	***VC1 Visual Creation** ***VC1 Digital Media Art** ***VC1 Digital Image Editing**	1 credit 1 credit 1 credit
Visual Communications II	***VC2 Advertising and Communication** ***VC2 Digital Print Design** VC2 User-Focused Design Principles	1 credit 1 credit 1 credit
Welding Technologies I	Weld1 Pre-Engineer Tech Weld1 Gas Metal Arc Weld Weld1 Shield Metal Arc Weld	1 credit 1 credit 1 credit
Welding Technologies II	Weld2 Pre-Engineer Tech Weld2 Welding Fabrication Weld2 Gas Tungsten Arc Weld	1 credit 1 credit 1 credit

***Bold Courses -** Weighted Course with College Credit Available

CAREER & TECHNICAL EDUCATION COURSES

COMPUTER SCIENCE PATHWAY PROGRAM COURSES (Grades 9-12)



Game Design

In this hands-on course, students will dive into the world of game creation using both commercial and open-source tools. They'll learn real industry programming skills to build their own interactive games from the ground up. Topics include designing animations, handling player input, detecting collisions, applying game physics, and creating basic artificial intelligence for characters. Students will work with classes, methods, and objects to write clean, organized code, just like professional game developers. By the end of the course, learners will have built playable games and gained the technical skills to take their game development journey to the next level. **Tech Seal Available**	Course No. 340 Grade 9-12 Credit 1 Periods Per Week 5 Length of Course Year Prerequisite None Fee None

Applications of Artificial Intelligence

This course is designed for students in grades 9–12 who want to explore the exciting world of artificial intelligence. Students will dive into the core ideas behind AI and gain hands-on experience creating their own AI projects. Through fun, real-world activities, learners will build skills to move from AI consumer to creator, designing dashboards, classifiers, and other projects that showcase their creativity and problem-solving. By the end of the course, students will have a portfolio of AI work and the knowledge to use AI responsibly and effectively. **Tech Seal Available**	Course No. 341 Grade 9-12 Credit 1 Periods Per Week 5 Length of Course Year Prerequisite None Fee None

Digital Content Creation and Web Design

Students dive into the world of modern content creation. You'll learn how to design and manage images, build multimedia projects, and create eye-catching digital content for video, print, social media, and the web. Explore hands-on techniques for shooting, editing, and optimizing graphics and digital assets, while mastering tools used by today's designers and creators. Throughout the course, you'll also learn smart strategies for publishing online, protecting your work, and staying safe on the internet. Using a mix of commercial and open-source software, you'll develop real-world creative skills and build a portfolio that showcases your abilities as a digital creator. **CTAG College Credit Available - Weighted Course - Tech Seal Available**	Course No. 342 Grade 9-12 Credit 1 Periods Per Week 5 Length of Course Year Prerequisite None Fee None

AP Computer Science Principles

This is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems, including the internet, work and explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. **AP College Credit Available - Weighted Course - Tech Seal Available**	Course No. 343P Grade 10-12 Credit 1 Periods Per Week 5 Length of Course Year Prerequisite None Fee $40 AP Exam

CAREER & TECHNICAL EDUCATION COURSES



ENGINEERING PATHWAY

PROGRAM COURSES (Grades 9-12)

Introduction to Engineering Design (IED)

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects like designing a new toy or improving an existing product. Students are provided the opportunity for a certification in Autodesk Fusion 360. College credits may be available if student meets certain criteria. **Students have the opportunity to obtain the Technology Seal. CTAG College Credit Available - Weighted Course**

Course No.	702
Grade	9-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	None

Principles of Engineering (POE)

Students explore a broad range of engineering topics including mechanisms, strength of structure and materials, and automation, and then they apply what they know to take on challenges like designing a self-powered car. Students are provided the opportunity for a certification in Autodesk Inventor. College credits may be available if student meets certain criteria. **Students have the opportunity to obtain the Technology Seal.**

Course No.	703
Grade	9-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	None

Digital Electronics (DE)

Students explore the foundations of computing by engaging in circuit design processes to create combinational logic and sequential logic (memory) as electrical engineers do in industry. Students are provided the opportunity for a certification in MOS Outlook. College credit opportunities available. **Students have the opportunity to obtain the Technology Seal. CTAG College Credit Available - Weighted Course**

Course No.	704
Grade	9-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	None

Aerospace Engineering (AE)

Students explore the physics of flight and bring what they're learning to life through hands-on projects like designing a glider and creating a program for an autonomous space rover. Students are provided the opportunity for a certification in MOS Excel. College credit opportunities available. **Students have the opportunity to obtain the Technology Seal.**

Course No.	705
Grade	9-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	None

CAREER & TECHNICAL EDUCATION COURSES



MARKETING PATHWAY

PROGRAM COURSES (Grades 9-12)

Sports and Entertainment Marketing

This is a fun, hands-on class that shows how brands, and especially sports teams, musicians, influencers, and entertainment companies, connect with consumers. You'll build important marketing skills like communication, research, pricing, selling, branding, and product development. You'll also see how these skills apply to the sports and entertainment world through fan engagement, event marketing, sponsorships, and athlete or performer branding. If you're into sports, music, or gaming, this course gives you a cool behind-the-scenes look at how digital marketing works and lets you create your own marketing ideas and projects. **Tech Seal Available**

Course No.	519
Grade	9-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	None

Social Media Marketing

Introduces students to how today's businesses use technology to reach the right audiences, especially on social media. In this class, you'll explore the digital tools, platforms, and strategies used by real companies, including creating social media content, building email campaigns, and understanding how mobile marketing works. You'll also learn important skills in project planning, problem-solving, and organizing information—skills that are useful not just in marketing, but in any future career. Whether you're dreaming of working in business, want to grow your own brand, or are just curious about how influencers and companies build online followings, this course gives you a fun, hands-on introduction to the world of social media marketing. **Tech Seal Available**

Course No.	520
Grade	9-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	None

Strategic Entrepreneurship

This course teaches students how to generate innovative business ideas, evaluate their feasibility, and develop strategies for successful commercialization. Learners will identify target markets, profile customers, define a business mission, and build a business plan, along with key skills in financial analysis. Students will also develop content creation skills to support their ventures, including producing digital and social media content that strengthens branding, marketing, and customer engagement. **CTAG College Credit Available - Weighted Course - Tech Seal Available**

Course No.	521
Grade	9-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	None

AP Business and Personal Finance

This is a yearlong high school business and personal finance course that aligns closely with a college-level introduction to business course. Students explore the business disciplines of entrepreneurship, marketing, finance, accounting, and management through real-world business applications, case studies, and project based learning. In addition, students learn and apply all the National Standards for Personal Financial Education. **AP College Credit Available - Weighted Course - Tech Seal Available**

Course No.	522P
Grade	10-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	$40 AP Exam

CAREER & TECHNICAL EDUCATION COURSES



Auto Collision Technology I

This program covers the skills necessary to do late model collision work and gain entry-level employment into the automotive collision field. Techniques taught include metal straightening and dent repair, proper use of body fillers, painting and refinishing, welding, plastic body repair and replacement and automobile construction. 12 point ICAR certification and college credits are available pending student meets requirements. **This course is taught at Normandy High and is available to students from both high schools.**	Course No. 626VA Grade 11 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite None Fee None

Auto Collision Technology II

This program utilizes the skills and techniques learned in Auto Collision Technology I. In this program students will learn about unibody straightening, suspension, automotive electrical and cooling systems, analyzing automotive body damage and estimate writing. Students get on-the-job experience through repair of customer service cars. 12 point ICAR certification and college credits are available pending student meets requirements. **This course is taught at Normandy High School and is available to students from both high schools.**	Course No. 627VA Grade 12 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite Auto Collision Tech I Fee None

Automotive Service Technology I

This course designed to provide students with a career in the automotive field. This course is supported by the auto manufacturers so students receive training on the newest motor vehicles. Students will begin with the basics and continue through to studying advanced systems such as: computer controls, fuel injections, emission controls, etc. Mentoring, internship and job placement are possible. This program is nationally certified by Automotive Youth Education Systems (AYES) and the National Automotive Technicians Education Foundation (NATEF), the education branch of ASE. 12 point ASE Length of Course Year certifications and college credits available pending student meets requirements. **The course is taught at Valley Forge High School but is available to students from both high schools.**	Course No. 692VA Grade 11 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite None Fee Optional Tool Costs

CAREER & TECHNICAL EDUCATION COURSES



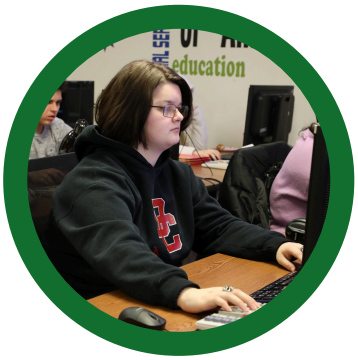
Automotive Service Technology II

This is the second year of the program. Students will expand on the basics they learned during the first year course with regard to studying manufacturers' specific technology. All phases of diagnostic procedures will be covered from using computer scan tools to lab scopes, to engine oscilloscopes. This course prepares a student for direct entry into the workforce or additional training at the college level. 12 point ASE certifications and Length of Course Year college credits available pending student meets requirements. This program is nationally certified by Automotive Youth Education Systems (AYES) and the National Automotive Technicians Education Foundation (NATEF), the education branch of ASE. **The course is taught at Valley Forge High School, but is available to students from both high schools.**	Course No. 693VA Grade 12 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite Automotive Service Technology I Fee None

Biotechnology Honors/AP Biology

This is a Tech Prep/STEM/College Board designed course to prepare students for a seamless transition to high tech careers in the Biological Sciences. Students will be exposed to college level course content. An emphasis is placed upon developing the laboratory and research skills that are required by employers in Science and Industry. Cutting edge topics required for Science careers in the 21st century are covered. Skills developed in this course include, but are not limited to, designing a plan for collecting data, analyzing data, modeling of concepts, applying mathematical routines, and connecting concepts in and across domains. This course meets for **TWO PERIODS A DAY**. More than 60% of contact time is spent in the lab. **College credits available through Ohio Higher Education and Tech Prep. Further college credits can be earned as students are expected to take the AP Biology exam in May. Biotechnology will be taught at both High Schools.**	Course No. 237PA Grade 12 Credit 2 Periods Per Week 10 Length of Course Year Prerequisite Chemistry Fee $40 AP Exam

CAREER & TECHNICAL EDUCATION COURSES



Business & Financial Management I

Business & Financial Management is a two year program designed for students who are interested in working in the business field and/or planning on going to college to major in business, finance, accounting, human resources, or management. Business is huge! Business Financial Management focuses on accounting while at the same time developing technology skills. Students will develop competencies in problem-solving, communication, project management, operations management, sales, and entrepreneurship. Instructional strategies include computer/technology applications, simulations and Internet research. Students will train in Microsoft Office 2019 software with MOS certifications in Word, PowerPoint, Outlook and Excel. Students may earn up to 16 college credits. All students join Business Professionals of America, a Career and Technical Student Organization in which students develop professional and technical skills for careers in business. All students participate in leadership and competitive events at the regional level with a chance to advance to state and nationals. **This course is taught at Valley Forge high School, but is available to students from both high schools. Students have the opportunity to obtain the Technologv Seal.**	Course No.	469VA
	Grade	11
	Credit	3
	Periods Per Week	15
	Length of Course	Year
	Prerequisite	None
	Fee	None

Business & Financial Management II

In the second year of Business & Financial Management students will continue to develop their business skills that were introduced in the first year. Students will enhance their training in finance, accounting, human resources and management. Students will train in QuickBooks Online, a web-based accounting software of choice for many small businesses. At the end of the training, students will take the QuickBooks Certified User (QBCU) certification test, an important credential for those in accounting and bookkeeping roles. Students will also train in an online Payroll Accounting course thru Labyrinth Learning. Students will continue to train in Microsoft Office 2019 in Access and Word Expert and compete again in Business Professionals of America. **This course is taught at Valley Forge High School, but is available to students from both high schools. Students have the opportunity to obtain the Technology Seal.**	Course No.	473VA
	Grade	12
	Credit	3
	Periods Per Week	15
	Length of Course	Year
	Prerequisite	Business Management I
	Fee	None

CAREER & TECHNICAL EDUCATION COURSES



Carpentry I

This program covers the aspects of basic residential constructions. Beginning level students will learn to use hand tools and both portable and stationary power tools. Students will work on the framing of walls, floors and roofs and get experience working with siding, roofing, drywall, doors, windows and interior trim. Emphasis will be placed on reading blueprints as students work together to construct training modules in the shop setting. Estimation and related math skills are needed. Our carpentry facility is accredited by the National Center for Construction Education and Research. **This course is taught at Normandy High School, but is available to students from both high schools**.	Course No. 629VA Grade 11 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite None Fee Optional Tool Costs

Carpentry II

This advanced course reinforces the skills students learned in Carpentry I as they construct dwellings, building additions and tackle other projects in the community. Commercial construction techniques are introduced (forming concrete, metal studs, suspended ceilings) and work will be done at job sites off of school grounds. Our carpentry facility is accredited by the National Center for Construction Education and Research. College credits may be available if student meets certain criteria. **This course is taught at Normandy High School but is available to students from both high schools. Students have the opportunity to obtain the Technology Seal.**	Course No. 630VA Grade 12 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite Carpentry I Fee None

CAREER & TECHNICAL EDUCATION COURSES



Cosmetology I

This course covers the basic requirements for licensing which includes sanitation/disinfection, anatomy/physiology, chemistry, hairstyling, hair color, haircutting, facials, skin care, manicures, gel nails, and chemical hair relaxing. **This course is taught at Normandy High School; however, it is available to students from both high schools.**	Course No.	558VC
	Grade	11
	Credit	4
	Periods Per Week	20
	Length of Course	Year
	Prerequisite	None
	Fee	$200 Kit Fee

Cosmetology II

This second year Cosmetology course covers additional requirements needed to complete the two-year course of study to be eligible to take the Ohio State Board of Cosmetology Licensing Exam. College credits may be available if student meets certain criteria. **This course is taught at Normandy High School; however, it is available to students from both high schools.**	Course No.	559VC
	Grade	12
	Credit	4
	Periods Per Week	20
	Length of Course	Year
	Prerequisite	Cosmetology I
	Fee	None

CAREER & TECHNICAL EDUCATION COURSES



Culinary Arts I

Culinary Arts I classroom includes sanitation (Ohio law) and allows students to achieve nationally recognized ServSafe certification. The student will be exposed to techniques used in a professional kitchen. The level one course work is aligned to the National Restaurant Association requirements to receive ProStart certification at the conclusion of the two-year program. Topics covered at this level include stocks, sauces, management, service, and career success. The students are expected to participate in the running and operation of the Sword & Shield Restaurant. **This course is taught at Normandy High School but is available to students from both high schools.**	Course No.	551VC
	Grade	11
	Credit	4
	Periods Per Week	20
	Length of Course	Year
	Prerequisite	None
	Fee	None

Culinary Arts II

Culinary Arts II level two course work continues to align with the National Restaurant Association requirements to receive ProStart certification. Topics covered at this level include purchasing and inventory, meat, poultry, seafood, desserts, and global cuisines. The students are expected to participate in the running and operation of the Sword & Shield Restaurant. **This course is taught at Normandy High School but is available to students from both high schools.**	Course No.	552VC
	Grade	12
	Credit	4
	Periods Per Week	20
	Length of Course	Year
	Prerequisite	Culinary I
	Fee	None

CAREER & TECHNICAL EDUCATION COURSES



Dental Technology I

Dental Assisting I is a two-year program that prepares students for entry level positions in dental offices, dental clinics, and in the armed forces. Duties include assisting the dentist in all phases of treatment, sterilizing instruments, preparing treatment rooms, providing patient education and nutritional counseling, exposing, processing and mounting radiographs, performing a variety of intra-oral expanded functions, fabricating mouth guards, working as a member of the dental team, performing basic laboratory procedures, selecting and transferring instruments, arranging and confirming appointments, and preparing dental claims. The dental assistant performs many tasks requiring both interpersonal and technical skills. Extra activities include: internship at Case Western Reserve University School of Dental Medicine, Give Kids a Smile, first grade demonstrations, and volunteerism. Students receive CPR training. **This course is taught at Normandy High School; however, it is available to students from both high schools.**	Course No. 570VA Grade 11 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite None Fee None

Dental Technology II

Pre-requisite is successfully passing Dental Technology I and Algebra II by graduation. Practical experiences in dental offices will be available to those who qualify. Students attend school in the morning and expand their skills by early job placement in the afternoon. Upon successful completion of this program, the student will be eligible to take the Commission on Dental Accreditation (CODA) Certification Exam held in Columbus. This State certification exam is held in October and May. Students are responsible for fees and transportation associated with this exam. Extra activities may include: Cleveland Metroparks Zoo (observing dental/medical procedures), Henry Schein Dental Expo, and Give Kids a Smile. **College credits may be available if student meets certain criteria. This course is taught at Normandy High School; however, it is available to students from both high schools.**	Course No. 571VA Grade 12 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite Dental I Fee None

CAREER & TECHNICAL EDUCATION COURSES



Digital Media & Creative Arts I

This course provides an overview of audio, video, film, photography and social media basics. Equipment training is provided on high-definition studio/field cameras, DSLR cameras, microphones, audio consoles, and film and television lighting. Students will also be trained on Adobe Premiere for video editing, Adobe Audition and GarageBand for audio and music editing, and Adobe Photoshop for still image and graphic design. Students also have the opportunity to produce the Morning Announcements for each high school one day a week using High Definition studio equipment. The projects in class are designed to train students in the art of television, film, audio, and music production. **This course is taught at Normandy High School but is available to students from both high schools. Students have the opportunity to obtain the Technology Seal.**	Course No. 543VA Grade 11 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite None Fee None

Digital Media & Creative Arts II

Students in the second year course will continue to develop their skills in the areas of audio, video, film, photography, and social media production. As part of the second year curriculum, students will be preparing for the Adobe Premiere, Photoshop, and Flash Certification exams. Students will also continue to produce the Morning Announcements for each high school one day a week while developing more advanced studio production skills. Students will showcase their work through various video contests along with the SkillsUSA Student Regional and State Competitions. Students are provided job skills training such as resumes, cover letters, and job interviews in order to complete a professional portfolio. College credits are available to students. who meet certain criteria. **This course is taught at Normandy High School but is available to students from both high schools. Students have the opportunity to obtain the Technology Seal.**	Course No. 544VA Grade 12 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite DMCA I Fee None

CAREER & TECHNICAL EDUCATION COURSES



Job Training I

This two-year job-training program provides opportunities for students to perform entry level job readiness skills in preparation for all ranges of employment after high school. Each student will participate in supervised off-campus training at various job sites from late September until May. On non-site days, students will receive classroom training to reinforce appropriate work site behavior, safety, sanitation, and grooming. Students are placed according to skill level and then rotated at the teacher's discretion. Students will be initially monitored at the sites with the eventual goal of independence. Students will also focus on resume writing and other skills necessary for successful employment after graduation. Students will leave the program with both hard and soft skills which will assist them in being successful in supportive employment in the community and/or adult activities in the community. Some students may also be eligible for assistance from the Bureau of Vocational Rehabilitation or the Cuyahoga County Board of Developmental Disabilities. If a student is eligible for these additional services, the teachers, students, parents, and transition coordinator will work in conjunction with these outside resources to determine appropriate post- secondary placement and support requirements. **This course is available at both high schools dependent upon each building's student needs, and placement is an Individualized Education Plan Team decision. Students have the opportunity to earn a Community Service Seal.**	Course No.	546V
	Grade	11-12
	Credit	3
	Periods Per Week	15
	Length of Course	Year
	Prerequisite	IEP Team Decision
	Fee	None

Job Training II

This two-year job-training program provides opportunities for students to perform entry level job readiness skills in preparation for all ranges of employment after high school. Each student will participate in supervised off-campus training at various job sites from late September until May. On non-site days, students will receive classroom training to reinforce appropriate work site behavior, safety, sanitation, and grooming. Students are placed according to skill level and then rotated at the teacher's discretion. Students will be initially monitored at the sites with the eventual goal of independence. Students will also focus on resume writing and other skills necessary for successful employment after graduation. Students will leave the program with both hard and soft skills which will assist them in being successful in supportive employment in the community and/or adult activities in the community. Some students may also be eligible for assistance from the Bureau of Vocational Rehabilitation or the Cuyahoga County Board of Developmental Disabilities. If a student is eligible for these additional services, the teachers, students, parents, and transition coordinator will work in conjunction with these outside resources to determine appropriate post-secondary placement and support requirements. **This course is available at both high schools dependent upon each building's student needs, and placement is an Individualized Education Plan Team decision.**	Course No.	545V
	Grade	11-12
	Credit	3
	Periods Per Week	15
	Length of Course	Year
	Prerequisite	IEP Team Decision
	Fee	None

CAREER & TECHNICAL EDUCATION COURSES



Community Based Employment I

This is a two-year training program that provides training opportunities for students to perform job and community skills in preparation for supportive employment and/or community opportunities after graduation from high school. The students will be at the job sites for approximately 40% of their course time, in the community 40% of the time, and in the classroom 20%. Skills practiced at job sites may include cleaning, setting tables, vacuuming, mopping, and dusting. Possible community locations are the grocery store, mall, restaurants, bowling alley, etc. During these community opportunities, skills practiced may include money management, functional reading skills, self-advocacy, and communication. During the time in the classroom, the skills practiced may include cooking, cleaning, laundry, hygiene, and in house vocational tasks. The students are provided transportation from their high school to their job/community location. Students will leave the program with both hard and soft skills which will assist them in being successful in supportive employment in the community and/or adult activities in the community. Some students may also be eligible for assistance from the Bureau of Vocational Rehabilitation or the Cuyahoga County Board of Developmental Disabilities. If a student is eligible for these additional services, the teachers, students, parents, and transition coordinator will work in conjunction with these outside resources to determine appropriate post-secondary placement and support requirements. **This course is available at both high schools dependent upon each building's student needs, and placement is an Individualized Education Plan Team decision.**	Course No.	547V
	Grade	11-12
	Credit	3
	Periods Per Week	15
	Length of Course	Year
	Prerequisite	IEP Team Decision
	Fee	None

Community Based Employment II

This is a two-year training program that provides training opportunities for students to perform job and community skills in preparation for supportive employment and/or community opportunities after graduation from high school. The students will be at the job sites for approximately 40% of their course time, in the community 40% of the time, and in the classroom 20%. Skills practiced at job sites may include cleaning, setting tables, vacuuming, mopping, and dusting. Possible community locations are the grocery store, mall, restaurants, bowling alley, etc. During these community opportunities, skills practiced may include money management, functional reading skills, self-advocacy, and communication. During the time in the classroom, the Credit 3 skills practiced may include cooking, cleaning, laundry, hygiene, and in house vocational tasks. The students are provided transportation from their high school to their job/community location. Students will leave the program with both hard and soft skills which will assist them in being successful in supportive employment in the community and/or adult activities in the community. Some students may also be eligible for assistance from the Bureau of Vocational Rehabilitation or the Cuyahoga County Board of Developmental Disabilities. If a student is eligible for these additional services, the teachers, students, parents, and transition coordinator will work in conjunction with these outside resources to determine appropriate post- secondary placement and support requirements. **This course is available at both high schools dependent upon each building's student needs, and placement is an Individualized Education Plan Team decision. Students have the opportunity to earn a Community Service Seal.**	Course No.	548V
	Grade	11-12
	Credit	3
	Periods Per Week	15
	Length of Course	Year
	Prerequisite	IEP Team Decision
	Fee	None

CAREER & TECHNICAL EDUCATION COURSES



Education Professions I

Education Professions is a program designed to provide insight into careers pertaining to education, leadership positions, and group management. Students will develop competencies in classroom management, educational principles, organizational abilities, and minor philosophies in education, while also developing technology skills that can be applied in and out of the classroom. Students will have the ability to gain certifications in CPR/First-Aid, Child Abuse, Communicable Disease, along with Microsoft Office 2019 certifications, applicable to the workforce.. All students will participate in projects pertaining to district-wide initiatives in order to develop fundamental skills in lesson planning and classroom management. Students will compete at the regional, state, and national levels through Educators Rising. **The course is taught at Valley Forge High School, but is available to students from both high schools. Students have the opportunity to obtain the technology seal.**	Course No. 640VA Grade 11 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite None Fee None

Education Professions II

The second year of Education Professions, provides students with the opportunity to work on the topics and principles established in Professions in Education I. Students will be able to improve their skills in classroom management, educational principles, organizational abilities, and philosophies on education, as well as aiming to achieve their Paraprofessional certification (1:1 classroom aide), Microsoft Office Specialist (MOS) Certification, Google certifications for education. Year two will also expand on shadowing opportunities throughout the year in specific areas of interest for the students. Students will compete at the regional, state, and national levels through Educators Rising. **The course is taught at Valley Forge High School, but is available to students from both high schools. Students have the opportunity to obtain the technology seal.**	Course No. 641VA Grade 12 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite Education Professions I Fee None

Medical Health Professions I

Medical Health Professions I prepares students to pursue careers in the medical field. Students are given a strong base of anatomy and physiology and medical terminology that could lead to an entry level job in the medical field. This junior year program lays the groundwork for students to pursue their education in the medical field. **The course is taught at Normandy but is available to incoming juniors from both high schools.**	Course No. 560VA Grade 11 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite None Fee None

Medical Health Professions II

This is a three-period class that will build on information students gained during Medical Health Professions I. Students will have the opportunity for internships, capstone projects, and various out-of-class activities that will better prepare them for an entry-level medical position and/or higher education in the medical field. **Students have a choice of the following pathways: nursing assistant, biomedical engineering, exercise science, and medical assisting. The course is taught at Normandy but is available to students from both high schools.**	Course No. 561V A/B/C/D Grade 12 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite Medical I Fee None

CAREER & TECHNICAL EDUCATION COURSES



Networking & Cybersecurity I

This course is for anyone who desires a practical, technical introduction to the field of information technology and computer science. This course is for students who are able to work at the community college level and are interested in careers as network technicians, computer programmers, database administrators, and help-desk staff. Students will use online curriculum that includes interactive media, labs, and network simulation software including Packet Tracer. Students will use specialized networking devices called routers and switches. They will have hands-on labs to connect, use, program, and troubleshoot computer equipment. Year one includes the first two of four courses (CCNA 1 and CCNA 2). The courses focus on network terminology, network protocols, local-area networks (LANs), Open System Interconnection (OSI) model, Cabling, Cabling tools, routers, router programming, Ethernet, Internet Protocol (IP) addressing, and Network standards. The course also focuses on initial router configuration, CISCO IOS software management, routing protocol configuration, TCP/IP, and access control lists (ACLs). In addition to networking, students also learn A+ (computer repair), JAVA (computer programming), and HTML. College credits may be available if student meets certain criteria. **This course is taught at Normandy High School but is available to students from both high schools. Students have the opportunity to obtain the Technology Seal.**

Course No.	600VA
Grade	11
Credit	3
Periods Per Week	15
Length of Course	Year
Prerequisite	None
Fee	None

Networking & Cybersecurity II

This second year of the program is for students who have successfully completed year one. Year two includes the final two of four courses (CCNA 3 and CCNA 4). With CCNA 3, students will develop skills in the configuration of advanced IP addressing techniques and intermediate routing protocols, CLI switch configuration, Ethernet switching, VLAN configuration, VTP configuration, and inter-VLAN routing configuration. In CCNA 4, students will develop skills in the configuration of advanced IP addressing techniques, WAN technology evaluation, WAN design, WAN protocol configuration and troubleshooting, and network management. Upon completion of this course, students may take the CCNA certification exam. In addition to the CCNA certification, students may also qualify for A+ (computer repair), HTML, and JAVA (computer programming) certifications. College Length of Course Year credits may be available if student meets certain criteria. **This course is taught at Normandy High School but is available to students from both high schools. Students have the opportunity to obtain the Technology Seal.**

Course No.	601VA
Grade	12
Credit	3
Periods Per Week	15
Length of Course	Year
Prerequisite	Networking & Cybersecurity 1
Fee	None

CAREER & TECHNICAL EDUCATION COURSES



Visual Communications I

Creative, disciplined, problem solving, mature, self-motivated and hardworking? Visual Communications Art I could be the program for you. Students will learn basic art skills, principles of design, and how to prepare attractive printed pieces working on Macintosh computers. Learn how to use the up-to-date Adobe product line to develop good work habits and creative problem solving techniques. Students will prepare competitive portfolios so previous experience in art is strongly recommended. **This course is taught at Valley Forge High School but is available to students from both high schools. Students have the opportunity to obtain the Technology Seal.**	Course No. 603VA Grade 11 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite None Fee None

Visual Communications II

This is the second year of the program where advanced curriculum is taught with a professional approach to various skills, techniques, and practices within the design fields. Macintosh computers, digital video and still cameras, high resolution scanners and CD burners are used in this course. Adobe CS,Photoshop, Illustrator, InDesign, along with Macromedia Flash and Dreamweaver software programs are explored. Apple's Final Credit 3 Cut Pro is used for video editing and MAYA for 3D animation. Students will complete a web page created in HTML, and post their student designed portfolio based on individual career/educational goals. Job placement is an option during second semester for senior students only. College credits may be Length of Course Year available if student meets certain criteria. **This course is taught at Valley Forge High School but is available to students from both high schools. Students have the opportunity to obtain the Technology Seal.**	Course No. 604VA Grade 12 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite Viscom 1 Fee None

Welding Technology I

The Welding Technology program will teach you the fundamentals of welding, the most common way of permanently joining metal parts, and the processes used to fabricate metal. You will receive training in gas, arc, flux core, and MIG and TIG welding. Along with blueprint reading and welding symbols, you will also learn how to use a grinder, drill, plasma arc cutter, burning torch, arc welding machines, and more. **The course is taught at Valley Forge High School, but is available to students from both high schools. Students have the opportunity to obtain the Technology Seal.**	Course No. 614VA Grade 11 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite None Fee None

Welding Technology II

This course is designed for those students who wish to continue in the Welding Technology program. The course objectives are similar to Welding Technology I except for the depth and time on task. However, the instruction will focus on the development of entry level job skills. **The course is taught at Valley Forge High School, but is available to students from both high schools. Students have the opportunity to obtain the Technology Seal.**	Course No. 615VA Grade 12 Credit 3 Periods Per Week 15 Length of Course Year Prerequisite Welding I Fee None

ENGLISH COURSES (REQUIRED)



English I

This course offers an integrated approach to the study of fiction and informational text with an emphasis on building reading, writing, speaking, and listening skills. Essays will be informative, narrative, analytical, and argumentative.

Course No.	014
Grade	9
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	$20.00

Pre-AP English I Honors

Pre-AP English I focuses on the reading, writing, and language skills that have immediate relevance for students and that will be essential for their future coursework. Texts take center stage in the classroom, inspiring and preparing all students for close, critical reading and analytical writing. The course trains the reader to observe the small details in a text to arrive at a deeper understanding of the whole. It also trains the writer to focus on crafting complex sentences, building this foundational skill en route to more sophisticated, longer-form analyses. **This course has a summer reading requirement.**

Course No.	014H
Grade	9
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	$30.00

English II

This course offers an integrated approach to the study of fiction and informational text from around the world with emphasis on building reading, writing, speaking, and listening skills. Essays will be informative, narrative, analytical, and argumentative.

Course No.	067
Grade	10
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	English I
Fee	$20.00

Pre-AP English II Honors

This course emphasizes the recursive moves that matter in preparing students for the challenges of college-level reading, writing, and discussion. While English I introduces the fundamental routines of close observation, critical analysis, and appreciation of author's craft, English II requires students to apply those same practices to a new host of nonfiction and literacy texts. As readers, students develop a vigilant awareness of how the poet, playwright, novelist, and writer of nonfiction alike can masterfully manipulate language to serve their unique purposes. As writers, students compose more nuanced analytical essays without losing sight of the importance of well-crafted sentences and a sense of cohesion. ' **This course has a summer reading requirement.**

Course No.	067H
Grade	10
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	English I
Fee	$30.00

ENGLISH COURSES (REQUIRED)



English III

This course offers an integrated approach to the study of American fiction and informational text with an emphasis on building reading, writing, speaking, and listening skills. Essays will be informative, narrative, analytical, and argumentative.

Course No.	068
Grade	11-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	English II
Fee	$20.00

English III Advanced Placement: Language & Composition

This course is designed to prepare students for success on the Advanced Placement English Language exam and the demands of college level coursework. Content includes an in-depth study of fiction and informational text with intensive focus on rhetoric, argumentation, and composition. **This course has a summer reading requirement. Students will be expected to take the AP Exam in May.**

Course No.	068P
Grade	11-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Pre-AP English II Honors
Fee	$75.00 -Includes AP Exam Fee

English IV

This course offers an integrated approach to the study of British fiction and informational text with an emphasis on building college and career readiness skills. Essays will be informative, narrative, analytical, and argumentative.

Course No.	070
Grade	12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	English III
Fee	$20.00

English IV Advanced Placement: Literature & Composition

This course is designed to prepare students for success on the Advanced Placement English Literature exam and the demands of college level coursework. Content includes an in-depth study with intensive focus on literary analysis and composition. **This course has a summer reading requirement. Students will be expected to take the AP Exam in May.**

Course No.	070P
Grade	12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	English III
Fee	$75-Includes AP Exam Fee

ENGLISH COURSES (ELECTIVES)



Heroes, Villains, & Mythology

This course examines heroes and villains across myths, literature, and graphic novels. Students will analyze character archetypes and explore how stories of heroes and villains reflect the values and beliefs of different societies.	Course No.	074
	Credit	1/2
	Grade	9-12
	Periods Per Week	5
	Length of Course	Year
	Prerequisite	None
	Fee	$15.00

Literature and Film

Students will examine the films inspired by selected texts and make connections between the role of literature and film in history as well as modern society. The coursework will include follow-up assignments for each work studied. Technical language of film-making and the specifics of script format will be included.	Course No.	080
	Credit	1/2
	Grade	9-12
	Periods Per Week	5
	Length of Course	Semester
	Prerequisite	None
	Fee	$20.00

Music and Literature

This course explores how music and lyrics reflect and influence society. Students will study a variety of music genres, analyze song lyrics as literature, and examine how artists use literary techniques and the creative process to communicate ideas and meaning.	Course No.	073
	Grade	9-12
	Credit	1/2
	Periods Per Week	5
	Length of Course	Semester
	Prerequisite	None
	Fee	$15.00

ENGLISH COURSES (ELECTIVES)



Speech and Debate

Students will learn how to organize and deliver demonstrative, informative and persuasive speeches, and will continue to develop research skills in preparation for formal debates. This course will benefit students who are considering further study in communications, law, politics, education, sales, or business.	Course No.	076
	Grade	9-12
	Credit	1/2
	Periods Per Week	5
	Length of Course	Semester
	Prerequisite	None
	Fee	$18.00

Theater Arts

This semester course provides students with practical performance arts within the English course of study. This course may be taken as an English elective or used to fulfill part of the fine arts requirement for graduation. Theater Arts will expose students to many aspects of theater production. Active classroom participation will be expected.	Course No.	078
	Grade	9-12
	Credit	1/2
	Periods Per Week	5
	Length of Course	Semester
	Prerequisite	None
	Fee	$12.00

FAMILY & CONSUMER SCIENCES COURSES



Career and College Readiness

It is highly recommended that students take this course during their 10th or 11th grade year to help fulfill their graduation electives requirement. This course is designed to walk students through the college application process and prepare for future career and personal finance planning. Students will use college and career readiness tool of Naviance.
Part 1 - College Readiness: Students will explore college and scholarship options. They will be designing and writing college applications and requesting strong letters of recommendation. Students will be using Naviance to continue college and career exploration and planning. Additional support for graduation requirements, including state and local seal preparation and completion, will be reviewed.
Part 2 - Career Readiness: Students will develop effective learning strategies and skills to provide a strong foundation for successful lifelong learning. Throughout the course, students will research careers and occupations. Students will develop the skills necessary to apply and interview for a job. They will have the opportunity to learn about careers through guest speakers, guidance counselors, and College Now representatives.
Part 3 - Personal Finance Planning: Students will develop personal financial plans for individual personal well-being. Throughout the course, students will develop financial literacy skills to provide a basis for responsible citizenship and career success.

Course No.	648
Grade	10-12
Credit	1/2
Periods Per Week	5
Length of Course	Semester
Prerequisite	None
Fee	None

Creative Foods for Healthy Living

Course content will focus on building and maintaining a healthy body through exercise and diet. Students will practice safe food handling procedures to prevent food-borne pathogens while participating in advanced healthy food lab experiences. Students will use time management strategies, decision-making skills, and multi-cultural awareness that relate to work and family goals to sustain productive, meaningful lifestyles. During this hands-on course, students create food patterns and evaluate nutritional information to guide food choices for a healthy lifestyle. **Because students will be eating what they prepare, teacher must be notified of a dietary concerns and/or food allergies.**

Course No.	533
Grade	9-12
Credit	1/2
Periods Per Week	5
Length of Course	Semester
Prerequisite	None
Fee	None

FAMILY & CONSUMER SCIENCES COURSES



Child Development

Students will understand the decisions of parenting, conception, pregnancy, prenatal care and child development by focusing on physical, social, emotional, and intellectual development at various stages. Completing the Real Care Babies project is required for this class. Some special topics include child abuse, adoptions, careers, divorce, parenting trends, and childcare.	Course No.	538
	Grade	9-12
	Credit	1/2
	Periods Per Week	5
	Length of Course	Semester
	Prerequisite	None
	Fee	None

Teen Foods and Nutrition

Teen Foods & Nutrition will teach you how to shop smart, plan and prepare healthy meals, using the USDA ChooseMyPlate.gov and new dietary guidelines. Students will explore the cultural, family, community and economic implications of food patterns and behavior with an emphasis on healthy lifestyles. Participation in cooking labs will enable students to demonstrate safe food handling practices while preparing attractive, tasty and healthy foods. **Because students will be eating what they prepare, teacher must be notified of a dietary concerns and/or food allergies.**	Course No.	532
	Grade	9-12
	Credit	1/2
	Periods Per Week	5
	Length of Course	Semester
	Prerequisite	None
	Fee	None

Textiles and Interior Design

In this course, students will explore a broad range of topics relating to the various aspects and career opportunities available in the field of textiles and design. The emphasis will be given to textiles project development and developing strategies to maintain the home. Additional topics will include project collaboration, design techniques, and environmental sustainability.	Course No.	535
	Grade	9-12
	Credit	1/2
	Periods Per Week	5
	Length of Course	Semester
	Prerequisite	None
	Fee	None

HEALTH & PHYSICAL EDUCATION COURSES



The student is responsible for:

- PE shirt and lock. Each individual school will provide details. The lock is required for the storage and security of clothing and shoes.
- The care and cleanliness of their clothing and shoes.
- All valuables must be securely locked in a gym locker during class.

The Parma City School District is not responsible for lost or stolen articles. For participation in a physical education class, it is strongly recommended that students wear: an athletic short or sweatpants. The clothes worn for physical education class must meet the rules and standards of the Parma City School District dress code.

All shoes worn for physical education classes must be athletic shoes that have non-marking soles.

PE Survey

This course will be an overview of physical education. Students will participate in a variety of activities including: individual sports, team sports, and fitness activities (such as cardiovascular endurance, strength training, and flexibility). This course will serve as the prerequisite for all physical education classes. **REQUIRED FOR GRADUATION.**

Course No.	910
Grade	9-12
Credit	1/4
Periods Per Week	5
Length of Course	Semester
Prerequisite	None
Fee	$8.00

Health Education

This course includes study in the areas of mental health, chemical substances, interpersonal relationships, diseases, well-being, and lifestyle decisions. Current health topics are discussed. This course provides instruction in CPR and the use of an automated external defibrillator(AED). **REQUIRED FOR GRADUATION.**

Course No.	937
Grade	9-10
Credit	1/2
Periods Per Week	5
Length of Course	Semester
Prerequisite	None
Fee	$8.00

HEALTH & PHYSICAL EDUCATION COURSES



Body for Life

This course is designed for anyone who wants to get into shape. Students will participate in activities that will encompass all of the components of fitness. The focus will be on a variety of different activities designed to incorporate all aspects of fitness. The goals of the class will be to increase core strength, flexibility, muscular strength, cardiovascular endurance, and reduce body fat. The class will include activities like weight lifting, abdominal work, yoga, Pilates, cardiovascular training, and some aspects of the current trends of the 30-90 day workout routines. Proper nutrition and recovery activities will also be discussed. The skills from this class can be utilized throughout the student's life.

Course No.	912
Grade	9-12
Credit	1/4
Periods Per Week	5
Length of Course	Semester
Prerequisite	PE Survey
Fee	$8.00

Lifeguarding

This course is designed for students who are interested in learning lifeguarding skills in order to become a certified lifeguard. **As required by the American Red Cross, the student must be 15 years of age and be able to demonstrate Level 7 swimming skills for enrollment.** This entails treading water for two minutes, retrieving a brick from the bottom of the pool, and swimming 500 meters using two strokes. An American Red Cross Lifeguarding Certificate in awarded upon successful completion of this course and a passing score on the American Red Cross lifeguard examination. ***Students enrolled in this course must pay a fee required for materials supplied by the American Red Cross. Fee is set by the American Red Cross; current fee is $110.00.**

Course No.	934
Grade	10-12
Credit	1/4
Periods Per Week	5
Length of Course	Semester
Prerequisite	Water Sports, Swim & Safety and or/PE Survey
Fee	$110.00 Red Cross Fee

Recreation & Lifetime Sports

This course will cover the basic skills in select recreational group or individual sport activities. Sports and activities may vary according to the school facility. Tennis, badminton, Frisbee, volleyball, golf and bocce are examples of such activities. Assessment will be based on written and physical skill tests.

Course No.	928
Grade	9-12
Credit	1/4
Periods Per Week	5
Length of Course	Semester
Prerequisite	PE Survey
Fee	$8.00

HEALTH & PHYSICAL EDUCATION COURSES



Team Sports I

This course will include selected team sport activities such as softball, basketball, volleyball, touch football, soccer, lacrosse, and other games of organization. Written and physical skill tests, rules, strategies, and team competition will be stressed in the course. The activities may vary according to season and school facilities.	
Course No.	925
Grade	9-12
Credit	1/4
Periods Per Week	5
Length of Course	Semester
Prerequisite	PE Survey
Fee	$8.00

Team Sports II

This course will emphasize many skills for different team sports. These include: specialized skill development, cooperative learning, strategical planning, and teaching games for understanding. Students will design in-game strategies and promote teamwork during game play. Physical performance assessments, written tests, team competition, and cognitive behavioral assessments will be emphasized. A deeper analysis of each sport will be explored. The activities may vary according to season and school facilities.	
Course No.	926
Grade	9-12
Credit	1/4
Periods Per Week	5
Length of Course	Semester
Prerequisite	PE Survey & Team Sports I
Fee	$8.00

Water Sports, Swim & Safety

This course will provide students with a variety of water activities. Sports may include water polo, basketball, volleyball, etc. Instruction will also include basic swim strokes, water safety procedures, CPR, and basic first aid (optional CPR certification will be offered). **Students enrolled in this course who choose to be CPR certified will be subject to a fee established by the American Red Cross.**	
Course No.	932
Grade	9-12
Credit	1/4
Periods Per Week	5
Length of Course	Semester
Prerequisite	PE Survey
Fee	None

HEALTH & PHYSICAL EDUCATION COURSES



Weight Training

This is an introductory course to strength and conditioning for overall fitness. The emphasis in this course is on muscular strength, endurance, flexibility, agility, and safety. Weight Training will be divided into strength training days and fitness days. Strength training days will consist of weight training and will be performed three times per week. Fitness days will consist of alternative training methods and will be performed two times per week. This is an excellent course for all student athletes.	

Course No.	936
Grade	9-12
Credit	1/4
Periods Per Week	5
Length of Course	Semester
Prerequisite	PE Survey
Fee	$8.00

Weight Training II, III, and IV

This course picks up right where Weight Training left off. The students will be exposed to many different types of workout options. This will include learning new exercises, altering sets, reps, and recovery periods. This will contribute to a workout where students can expect to build strength, get lean and toned, and develop coordination and balance. Proper program development and nutrition guidelines will be discussed. Resistance training will be the focus of this class, but we will also be engaging in multiple alternative training methods as well. Students may enroll in Weight Training II, III, or IV to continue advancing their fitness skills and personal goals.	

Course No.	938, 939, 940
Grade	9-12
Credit	1/4
Periods Per Week	5
Length of Course	Semester
Prerequisite	PE Survey & Weight Training
Fee	$8.00

INDUSTRIAL EDUCATION COURSES



Home Remodeling/Renovation

Students will apply structural and mechanical skills to remodeling and renovations. In addition, students will learn the process of securing the required building permits, the management of subcontractors, and the coordination of formal building inspections. Students will troubleshoot design or logistics issues and provide possible solutions. Throughout the course, the safe handling of materials, personal safety, prevention of accidents and the mitigation of hazards are emphasized.

Course No.	706
Grade	9-12
Credit	1/2
Periods Per Week	5
Length of Course	Semester
Prerequisite	None
Fee	$10.00

Woods I (Manufacturing Operations I)

Woods Technology I is for the beginning student who may have little or no experience in woodworking. This course will focus on students learning the fundamentals of cabinet making so students can eventually build high quality furniture on their own. Areas of study will include safety and the proper use of power equipment, identifying various woods, figuring board feet, types of fasteners, glues, and finishes. Students can build projects of their own design as time permits. Students will learn the production processes applied across manufacturing operations. Students will be able to demonstrate a broad array of technical skills with an emphasis given to quality practices, measurement, maintenance and safety. **Students have the opportunity to obtain the Technology Seal.**

Course No.	717
Grade	9-12
Credit	1/2
Periods Per Week	5
Length of Course	Semester
Prerequisite	None
Fee	$12.00

Woods II (Manufacturing Operations II)

Woods Technology II begins where Woods Technology I ends. The focus of Woods Technology II is on design and construction of serious wood working projects. Students are expected to make one or more major projects using various equipment. Areas of study include safety, problem solving skills, career opportunities and becoming a better consumer. Students will learn the production processes applied across manufacturing operations. Students will be able to demonstrate a broad array of technical skills with an emphasis given to quality practices, measurement, maintenance and safety. **Students have the opportunity to obtain the Technology Seal.**

Course No.	718
Grade	9-12
Credit	1/2
Periods Per Week	5
Length of Course	Semester
Prerequisite	Woods I
Fee	$12.00

PARMA CITY SCHOOL DISTRICT
SEQUENCE OF MATHEMATICS COURSES

The following is the recommended sequence of study in the mathematics curriculum. Any deviation from this sequence requires the approval of the department. Students entering Honors Math will be recommended by their teachers using the Honors Math entrance rubric that weights the following criteria for enrollment: (1) accelerated scores on winter MAP test and most recent OST, (2) teacher recommendation, (3) average math grade of B or higher, (4) Gifted identification in math or superior cognitive.

PCSD Math Pathway Suggestions	Grade 9	Grade 10	Grade 11	Grade 12
General Math Sequence	Algebra I	Geometry	Algebra II Algebra II part I (extended two year option)	Pre-Calculus Statistics AP Statistics Algebra II part II (extended two year option)
Alternative Algebra II Pathway	Algebra I	Geometry	Mathematical Modeling & Reasoning	Statistics Algebra II AP Pre-Calculus AP Statistics
Accelerated Math Sequence (for students taking Alg. I in 8th grade)	Geometry Honors	Algebra II Honors	AP Pre-Calculus AP Statistics	AP Calculus AB AP Statistics AP Pre-Calculus
Honors Math Sequence	Algebra I Honors	Geometry Honors	Algebra II Honors	AP Pre-Calculus AP Statistics

MATHEMATICS COURSES



A GRAPHING CALCULATOR IS RECOMMENDED FOR ALL MATH COURSES

Advanced Placement Calculus AB

Calculus is the branch of mathematics studying the rate of change of quantities and the length, area, and volume of objects. This course provides an in-depth study of differential and integral calculus. The focus of this course will be on evaluating limits, calculating rates of change, finding velocities and accelerations of moving bodies, and finding the area under a curve and using it to evaluate area and volumes of solid objects. Algebraic, numerical and graphical representations of these concepts will be emphasized and connected throughout the course. AP Calculus is equivalent to at least a semester of calculus at most colleges and universities, perhaps up to a year of calculus at some. **Students will be expected to take the AP Exam in May.**

Course No.	370P
Grade	12
Credit	1
Length of Course	Year
Periods Per Week	5
Prerequisite	AP Pre-Calc
Fee	$70 includes AP Exam Fee

Advanced Placement Pre-Calculus

AP Precalculus centers on functions modeling dynamic phenomena. This research-based exploration of functions is designed to better prepare students for college-level calculus and provide grounding for other mathematics and science courses. In this course, students study a broad spectrum of function types that are foundational for careers in mathematics, physics, biology, health science, business, social science, and data science. AP Precalculus is designed to be the equivalent of a first-semester college precalculus course. AP Precalculus provides students with an understanding of the concepts of college algebra, trigonometry, and additional topics that prepare students for further college-level mathematics courses. **Students will be expected to take the AP Exam in May.**

Course No.	367P
Grade	11-12
Credit	1
Length of Course	Year
Periods Per Week	5
Prerequisite	Algebra II
Fee	$70 includes AP Exam Fee

Advanced Placement Statistics

The purpose of this course is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: (1) Exploring Data: Describing patterns and departures from patterns, (2) Sampling and Experimentation: Planning and conducting a study, (3) Anticipating Patterns: Exploring random phenomena using probability and simulation, and (4) Statistical Inference: Estimating population parameters and testing hypothesis. Students who successfully complete the course and AP exam may receive college credit, college advanced placement, or both for a one-semester introductory college statistics course. An introductory statistics course is typically required for college majors, such as social sciences, health sciences, and business. **Students will be expected to take the AP Exam in May.**

Course No.	368P
Grade	11-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Algebra II
Fee	$70 includes AP Exam Fee

MATHEMATICS COURSES



A GRAPHING CALCULATOR IS RECOMMENDED FOR ALL MATH COURSES

Algebra I

All students require a rigorous and demanding curriculum in order to develop sound reasoning and strong problem-solving skills. Algebra I students will progress from their informal middle school experience with number relationships, data analysis, linear, and nonlinear equations to more formal definitions, algebraic reasoning, and graphical representations.

Course No.	359
Grade	9-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Math 8
Fee	None

Algebra I Applied Math

This course addresses content through concrete models and real-world situations. Targeted instruction in foundational algebra concepts, such as number relationships, linear and non- linear equations, algebraic reasoning, and graphical representations will help the student succeed with the pace, rigor, and accountability of their regular Algebra I course. **This course must be taken at the same time as the Algebra 1 course. Students will earn credit for both classes.**

Course No.	359AA
Grade	9
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Recommendation
Fee	None

Algebra I Honors

This course provides a more in-depth presentation of Algebra I and is more rigorous. It is designed for the highest level mathematics student who is expected to be an independent thinker and is able to make connections within the topics of Algebra I.

Course No.	360H
Grade	9-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Honor Math Course Requirement
Fee	None

Algebra II

This is the second course in Algebra and will continue to develop all the concepts previously studied. Algebra II is essential for the student who desires to continue a formal study of mathematics. The course focuses on comparing, contrasting, and modeling nonlinear functions, as well as an introduction to trigonometric functions. **This course is a state mandated graduation requirement.**

Course No.	361
Grade	10-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Algebra I
Fee	None

MATHEMATICS COURSES



A GRAPHING CALCULATOR IS RECOMMENDED FOR ALL MATH COURSES

Algebra II - Part 1

This course covers the first semester of the Algebra II curriculum taught over an entire school year. This course is designed for students who need slower pacing of Algebra II concepts. The course will focus on relations and functions, linear equations, inequalities and systems, quadratic functions, and polynomial functions. **This course is the first half of the state mandated graduation requirement.**	Course No.	361A
	Grade	10-12
	Credit	1
	Periods Per Week	5
	Length of Course	Year
	Prerequisite	Algebra I
	Fee	None

Algebra II - Part 2

This course covers the second semester of the Algebra II curriculum taught over an entire school year. This course is designed for students who need slower pacing of Algebra II concepts. The course will focus on polynomial equations, inverses and radical functions, exponential functions, logarithmic functions, and rational functions. **This course is the second half of the state mandated graduation requirement.**	Course No.	361B
	Grade	10-12
	Credit	1
	Periods Per Week	5
	Length of Course	Year
	Prerequisite	Algebra II Part 1
	Fee	None

Algebra II Honors

This course is a more rigorous and in-depth Algebra II course, designed for the highest level mathematics student. Students are expected to be independent thinkers, and they must be able to make connections within the topics of Algebra II.	Course No.	361H
	Grade	10-12
	Credit	1
	Periods Per Week	5
	Length of Course	Year
	Prerequisite	Geometry or Geometry Honors
	Fee	None

MATHEMATICS COURSES



A GRAPHING CALCULATOR IS RECOMMENDED FOR ALL MATH COURSES

Geometry

The main goal of geometry is to develop students' abilities to reason and to present coherent arguments. In addition to this deep involvement with logic and deduction, students discover connections between formal geometry and the algebraic techniques. Students will also learn the important practical applications of geometry.	Course No.	363
	Grade	9-12
	Credit	1
	Periods Per Week	5
	Length of Course	Year
	Prerequisite	Algebra I
	Fee	None

Geometry Honors

This course is a more rigorous and in-depth Geometry course, designed for the highest level mathematics student. Students are expected to be independent thinkers, and they must be able to make connections within the topics of Geometry.	Course No.	363H
	Grade	9-12
	Credit	1
	Periods Per Week	5
	Length of Course	Year
	Prerequisite	Algebra I
	Fee	None

MATHEMATICS COURSES

A GRAPHING CALCULATOR IS RECOMMENDED FOR ALL MATH COURSES



Mathematical Modeling & Reasoning (Quantitative Reasoning)

Do you enjoy working and communicating with others? Do you enjoy hands-on activities using real-world contexts? Then this course might be for you! It is designed to promote reasoning, problem-solving, and modeling through thematic units focused on mathematical practices. Critical thinking and communicating about mathematics are the primary objectives of the course. **This course also meets the state requirement for the equivalent of Algebra 2.**

Course No.	362
Grade	10-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Geometry
Fee	None

Pre-Calculus

This course builds on the application of non-linear functions from Algebra II with the study of polynomial, exponential, logarithmic, trigonometric, parametric functions along with vectors, linear algebra, conic sections and probability and statistics. With an introduction to limits.

Course No.	366
Grade	11-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Algebra II or MMR
Fee	None

Statistics

Statistics plays a vital role in many professional fields including archeology, business, economics, medicine, natural science, and consumer science. Students will enhance their interdisciplinary and mathematical foundation in examining and analyzing problems through the exploration of real life applications and data sets, incorporating technology in the process.

Course No.	368
Grade	11-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Algebra II or MMR
Fee	None

MUSIC COURSES



Advanced Placement Music Theory

The AP Music Theory course corresponds to two semesters of a typical introductory college music theory course that covers topics such as musicianship, ear training, music literacy, and 18th Century compositional techniques. Musicianship skills (including dictation, sight-singing, and keyboard harmony), are considered an important part of the course. Prior to enrollment in this course, students should be able to read and write musical notation, and it is strongly recommended that the student has acquired at least basic performance skills in voice or on an instrument. **Students have the opportunity to earn a Fine and Performing Arts Seal. Students will be expected to take the AP Exam in May.**	Course No.	850P
	Grade	10-12
	Credit	1
	Periods Per Week	5
	Length of Course	Year
	Prerequisite	None
	Fee	$66.00 - includes AP exam fee

Auxiliary Corps

This course is designed only for majorettes, flag corps, dance, and others designated with the band director's permission. Students must audition and be selected for this course. **Students have the opportunity to earn a Fine and Performing Arts Seal.**	Course No.	840
	Grade	9-12
	Credit	1/4
	Periods Per Week	5
	Length of Course	Quarter
	Prerequisite	Audition
	Fee	None

Bel Canto

This treble-voiced choir helps students learn to sing with proper vocal techniques, become familiar with choral literature, and develop an understanding and appreciation of music. Performance at concerts during the year is an outgrowth of class work. **Students must audition and be selected for this course. Students have the opportunity to earn a Fine and Performing Arts Seal.**	Course No.	837OG
	Grade	10-12
	Credit	1
	Periods Per Week	5
	Length of Course	Year
	Prerequisite	None
	Fee	None

MUSIC COURSES



Concert Band

The Concert Band is the entry-level band. It is composed of high school wind and percussion musicians. It will be balanced from the standpoint of instrumentation and members will play all types of music. Marching Band is included as a mandatory segment of Concert Band. **Students have the opportunity to earn a Fine and Performing Arts Seal.**	Course No.	841
	Grade	9-12
	Credit	1
	Periods Per Week	5
	Length of Course	Year
	Prerequisite	None
	Fee	None

Concert Choir

This is a select choir for the most advanced singers, typically juniors and seniors. This course furthers the development of musicianship and encourages singers to continue exploring diverse genres, styles, and time periods. Students find joy in sharing music with others in class and through public performances. This ensemble participates in concerts throughout the year, both in school and in the community. Students must audition and be selected for this course. **Students have the opportunity to earn a Fine and Performing Arts Seal.**	Course No.	838
	Grade	10-12
	Credit	1
	Periods Per Week	5
	Length of Course	Year
	Prerequisite	Audition
	Fee	None

Mixed Choir

This choir helps talented students learn to sing with proper vocal techniques, become familiar with choral literature, and develop an understanding and appreciation of music. This is the recommended course for Freshman and novice singers. Performance at concerts during the year is an outgrowth of class work. **Students have the opportunity to earn a Fine and Performing Arts Seal.**	Course No.	837
	Grade	9-12
	Credit	1
	Periods Per Week	5
	Length of Course	Year
	Prerequisite	None
	Fee	None

Music Theory

This course addresses, in depth, the more academic concepts of how music works. This course builds upon the student's prior knowledge to solidify understandings of pitch and rhythm, melody, harmony, and basic form. **Students have the opportunity to earn a Fine and Performing Arts Seal.**	Course No.	850
	Grade	9-12
	Credit	1/2
	Periods Per Week	5
	Length of Course	Semester
	Prerequisite	Demonstrate Basic Music Literacy Skill
	Fee	$14.00

MUSIC COURSES



Orchestra (String)

The orchestra is open to students who play an orchestral string instrument. The orchestra performs during the school year for concerts and other school activities. This class contributes to the development of a student's musicianship and promotes the appreciation of music. **Students have the opportunity to earn a Fine and Performing Arts Seal.**	Course No. 845 Grade 9-12 Credit 1 Periods Per Week 5 Length of Course Year Prerequisite None Fee None

Percussion Ensemble

This course is designed for any percussion students who are either signed up for band or who choose to be in a music group other than band as an elective. Students will play a wide variety of music including cadences and ensembles. Instruments will be provided. Students must have a background in percussion playing with at least an eighth grade level of ability or the band director's permission. **Students have the opportunity to earn a Fine and Performing Arts Seal.**	Course No. 852 Grade 9-12 Credit 1/2 Periods Per Week 5 Length of Course Semester Prerequisite Director Permission Fee None

Symphonic Band

This band is composed of the most advanced high school wind and percussion musicians. Membership in this ensemble will be partially based upon balanced instrumentation. Marching Band is included as a mandatory segment. **Students have the opportunity to earn a Fine and Performing Arts Seal.**	Course No. 842 Grade 9-12 Credit 1 Periods Per Week 5 Length of Course Year Prerequisite None Fee None

Music Department Special Note:

Evening and/or weekend attendance is expected at performances of all vocal and instrumental groups. Failure to attend may affect student's course grade. Conflicts will be handled on a case-by-case basis.

PARMA CITY SCHOOL DISTRICT SEQUENCE OF SCIENCE COURSES

The following is the recommended sequence of study in the science curriculum. Any deviation from this sequence requires the approval of the department chairperson.

<table>
<tr><th>9th Grade</th><th>10th Grade</th><th>11th Grade</th><th>12th Grade</th></tr>
<tr><td rowspan="2">Honors Biology</td><td colspan="2">Students taking Honors Chemistry in 10th grade are strongly recommended to take AP Physics or Physics in 11th Grade</td><td rowspan="2">AP Chemistry

AP Biology/Honors Biotechnology

Honors Engineering Physics

Astronomy</td></tr>
<tr><td>Honors Chemistry</td><td>AP Physics I

AP Physics C

Electives
AP Chemistry
Astronomy</td></tr>
<tr><td rowspan="2">Biology</td><td colspan="2">Students taking Honors Chemistry in 10th grade are strongly recommended to take AP Physics or Physics in 11th Grade</td><td rowspan="2">Biology II

AP Chemistry

AP Biology/Honors Biotechnology

Engineering Physics

Astronomy</td></tr>
<tr><td>Chemistry</td><td>Physics
Biology II

Electives
Astronomy</td></tr>
<tr><td>Biology</td><td>Physical Science</td><td>Environmental Science

Chemistry</td><td>Physical Geology

Chemistry

Physics</td></tr>
</table>

Science Department Note:
In an effort to offer a quality laboratory program as part of our Science classes, it is necessary to assess a student fee to purchase consumable items and replenish lab materials that are subject to normal wear, tear, and breakage.

SCIENCE COURSES

A SCIENTIFIC CALCULATOR IS RECOMMENDED FOR ALL SCIENCE COURSES



Advanced Placement Chemistry

This course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Topics such as the structure of matter, kinetic theory of gases, chemical equilibria, chemical kinetics, and concepts in thermodynamics will be discussed in considerable depth. College Board lab requirements require this course to be scheduled as a block. Students will be expected to take the AP Exam in May. **A TI-30XIIS scientific calculator or comparable calculator is recommended. Students will be expected to take the AP Exam in May.**

Course No.	232P
Grade	11-12
Credit	2
Periods Per Week	10
Length of Course	Year
Prerequisite	Chemistry, Algebra II or Trig.
Fee	$52-Includes AP Exam Fee

Advanced Placement Physics 1: Algebra-Based

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics by developing models of physical phenomena through inquiry-based investigations. Students build their understanding of physical models as they explore and solve problems in these content areas: kinematics, forces and translational dynamics, work, energy, power, linear momentum, torque and rotational dynamics, energy and momentum of rotating systems, oscillations, and fluids. AP Physics 1 is the equivalent to the first course in an introductory college course sequence in algebra-based physics. College Board lab requirements require this course to be scheduled as a block. **A TI-30XIIS scientific calculator or comparable calculator is recommended. Students will be expected to take the AP Exam in May.**

Course No.	234P
Grade	11-12
Credit	2
Periods Per Week	10
Length of Course	Year
Prerequisite	Geometry and Chemistry
Fee	$62.00-Includes AP Exam Fee

Advanced Placement Physics C: Mechanics

The Physics C: Mechanics course is equivalent to a one semester calculus-based, college-level physics course with a lab component. It is especially appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as kinematics; Newton's laws of motion; work, energy and power, systems of particles and linear momentum; gravitation. circular motion and rotation, and oscillations and gravitation. Introductory differential and integral calculus is used throughout the course. **A graphing calculator is recommended with the TI-83 model preferred. Students will be expected to take the AP Exam in May.**

Course No.	235P
Grade	11-12
Credit	2
Periods Per Week	10
Length of Course	Year
Prerequisite	Completed or concurrently in Calc
Fee	$62.00-Includes AP Exam Fee

Astronomy

In this course, the students will learn about the sun, the solar system, galaxies, stars, comets, and other celestial bodies (an overview of the world's space programs should time permit). Students should have a good background in algebra, and should understand basic chemical equations. **Students are encouraged to register for both Astronomy and Physical Geology, as these are one-semester courses that will be offered the same period.**

Course No.	240
Grade	11-12
Credit	1/2
Periods Per Week	5
Length of Course	Semester
Prerequisite	None
Fee	$19.00

SCIENCE COURSES



A SCIENTIFIC CALCULATOR IS RECOMMENDED FOR ALL SCIENCE COURSES

Biology I

Biology I investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework though inquiry-based instruction to explore the living world, the physical environment, and the interactions within and between them. This is aligned with the State of Ohio standards which will prepare students for success with the OST test and serves as base knowledge for future science courses.	Course No. 207 Grade 9-12 Credit 1 Periods Per Week 5 Length of Course Year Prerequisite None Fee $16.00

Biology I Honors

The content is similar to Biology I, but it is taught at a faster, more demanding pace and has a stronger lab orientation.	Course No. 207H Grade 9 Credit 1 Periods Per Week 5 Length of Course Year Prerequisite None Fee $19.00

Biology II

This course emphasizes anatomy and physiology priority standards while integrating key concepts in biological science essential for developing a biologically literate citizen. Students will engage in a systematic study of human anatomy and physiological processes through dissection, while connecting these foundations to cutting-edge areas in modern biology. Through detailed instruction and hands-on laboratory experiences, students will also explore virology and bacteriology, human genetics and molecular biology, and biological forensics to gain practical skills in scientific investigation. By the end of the course, students will have a comprehensive understanding of biological principles that relate to human health, medicine, and real-world biological issues.	Course No. 236 Grade 11-12 Credit 1 Periods Per Week 5 Length of Course Year Prerequisite Chemistry & Biology I Fee $19.00

SCIENCE COURSES



A SCIENTIFIC CALCULATOR IS RECOMMENDED FOR ALL SCIENCE COURSES

Biotechnology Honors (Tech Prep)/AP Biology

This is a Tech Prep/STEM/College Board designed course to prepare students for a seamless transition to high tech careers in the Biological Sciences. Students will be exposed to college level course content. An emphasis is placed upon developing the laboratory and research skills that are required by employers in Science and Industry. Cutting edge topics required for Science careers in the 21st century are covered. Skills developed in this course include, but are not limited to, designing a plan for collecting data, analyzing data, modeling of concepts, applying mathematical routines, and connecting concepts in and across domains. This course meets for **TWO PERIODS A DAY**. More than 60% of contact time is spent in the lab. **College credits available through Ohio Higher Education and Tech Prep. Further college credits can be earned as students are expected to take the AP Biology exam in May. Biotechnology will be taught at both High Schools**

Course No.	237PA
Grade	12
Credit	2
Periods Per Week	10
Length of Course	Year
Prerequisite	Chemistry
Fee	$40-Includes AP Exam Fee

Chemistry

Chemistry is the study of matter and the changes it undergoes. This course explores the concepts of matter and its properties. Focus is on elements and the formation of compounds, atomic structure, and the principles of chemical bonding. Problem-solving, mathematical analysis of data, and logical thinking are emphasized. Chemistry provides the student with an excellent foundation for more advanced science courses. Students taking this course must have successfully passed Algebra I and/or have a teacher recommendation. **A TI-30XIIS scientific calculator or comparable calculator is recommended.**

Course No.	230
Grade	10-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Biology I and Algebra I
Fee	$16.00

Chemistry Honors

The content is similar to Chemistry, but it is taught at a faster, more demanding pace. Material is explored in greater depth with more extensive assignments required. **A TI-30XIIS scientific calculator or comparable calculator is recommended.**

Course No.	230H
Grade	10-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Biology I and Algebra I
Fee	$19.00

SCIENCE COURSES



A SCIENTIFIC CALCULATOR IS RECOMMENDED FOR ALL SCIENCE COURSES

Engineering Physics Honors

This course addresses how concepts covered in Physics apply to design and engineering. This is a project-oriented class in which students will frequently work in teams to solve engineering-related challenges. Students will learn about the major areas of engineering such as aeronautic, chemical, electrical, industrial, and mechanical engineering through projects and guest speakers and competitions. This course is recommended for students interested in a technically oriented career.

Course No.	233H
Grade	12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Physics and Algebra II
Fee	$47.00

Environmental Science

Environmental Science is designed to introduce students to major ecological concepts and the environmental problems that affect the real world in which they live. The role and impact of human activities on the earth's environment and energy will involve inquiry-based learning with students performing classroom and laboratory investigations. Teacher recommendation required.

Course No.	227
Grade	11-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Biology, Physical Sci.
Fee	$16.00

Physical Geology

Physical Geology incorporates basic chemistry, physics and environmental science and introduces students to key concepts, principles and theories within geology. Topics include minerals and rocks, Earth's history, plate tectonics, Earth's resources and glacial geology. Minimally, students should have had Biology, Physical Science and Environmental Science before taking this course. **Students are encouraged to register for both Astronomy and Physical Geology, as these are one-semester courses that will be offered the same period.**

Course No.	225
Grade	12
Credit	1/2
Periods Per Week	5
Length of Course	Semester
Prerequisite	Biology, Physical & Environ. Science
Fee	$20.00

SCIENCE COURSES



A SCIENTIFIC CALCULATOR IS RECOMMENDED FOR ALL SCIENCE COURSES

Physical Science

This is a yearlong lab intensive course that deals with the study of physics and chemistry. The chemistry portion deals with atoms, physical/chemical changes, conservation of matter and various chemical reactions. The physical portion deals with the production and transfer of energy, motion and waves. This course focuses on real life applications and proper lab techniques. It is an excellent preparatory class for Chemistry.	

Course No.	224
Grade	10-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Biology I
Fee	$16.00

Physics

The objective of this course is to familiarize students with the workings of our physical world. Concepts, which will be covered, include motion, energy, work, electricity, magnetism, wave characteristics, and light. An emphasis is placed on logical thinking, problem solving and mathematical analysis.	

Course No.	234
Grade	11-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Chemistry, Algebra I & Geometry
Fee	$19.00

SOCIAL STUDIES COURSES



Advanced Placement European History

The study of European History since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. The emphasis is on creating a context for understanding the development of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse. In addition to providing a basic narrative of events and movements, the goals of AP European History are to develop (a) an understanding of some of the principal themes in modern European history, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. **Students will be expected to take the AP Exam in May.**	Course No. 153P Grade 10-12 Credit 1 Periods Per Week 5 Length of Course Year Prerequisite None Fee $64.00-Includes AP Exam Fee

Advanced Placement Macro Economics/Micro Economics

The AP course in Economics is to give students a thorough understanding of the principals of Economics that apply to an economic system as a whole. Such a course places particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. The following is a brief list of these topics that a teacher may choose to explore: I. Basic Economic Concepts II. Measurement of Economic Performance III. National Income and Price Determination IV. Financial Sector V. Inflation, Unemployment and Stabilization Policies VI. Economic Growth and Productivity VII. Open Economy: International Trade and Finance **Students will be expected to take two AP Exams: Macro Economics AP Exam as well as the Micro Economics in May.**	Course No. 170P Grade 10-12 Credit 1 Periods Per Week 5 Length of Course Year Prerequisite None Fee $104.00-Includes both AP Exam Fee

SOCIAL STUDIES COURSES



Advanced Placement Psychology

The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, analyze bias, evaluate claims and evidence, and effectively communicate ideas. **Students will be expected to take the AP Exam in May.**	Course No.	173P
	Grade	11-12
	Credit	1
	Periods Per Week	5
	Length of Course	Year
	Prerequisite	None
	Fee	$68.00-Includes AP Exam Fee

Advanced Placement U.S. Government & Politics

This is a college-level course that stresses ideas, issues and changes in our U.S. Government. Independent study skills in writing essay examinations and short research papers will be emphasized. This course will have a strong emphasis on politics and the comparing and contrasting of contemporary trends in political science. Upon successful completion of the Advanced Placement Test, college credit may be earned. **Students will be expected to take the AP Exam in May.**	Course No.	167P
	Grade	11-12
	Credit	1
	Periods Per Week	5
	Length of Course	Year
	Prerequisite	None
	Fee	$64.00-Includes AP Exam Fee

Advanced Placement U.S. History

This is a college-level course, which stresses ideas and issues in our historical development. Independent study skills in writing essay examinations and analysis of primary source documents will be emphasized. Upon successful completion of the Advanced Placement Test, college credit may be earned. **Students will be expected to take the AP Exam in May.**	Course No.	160P
	Grade	11-12
	Credit	1
	Periods Per Week	5
	Length of Course	Year
	Prerequisite	None
	Fee	$64.00-Includes AP Exam Fee

SOCIAL STUDIES COURSES



Advanced Placement World History

AP World History focuses on the four major Historical Thinking Skills and five central course themes: 1) Interaction between Humans and the Environment, 2) Development and Integration of Cultures, 3) State-Building, Expansion and Conflict, 4) Creation, Expansion, and Interaction of Economic Systems, and 5) Development and Transformation of Social Structures. The course provides global coverage of Africa, the Americas, Asia, Oceania, Australia, and Europe. The course allows students to develop strong written arguments showcasing a thesis and relevant historical evidence. **Students will be expected to take the AP Exam in May.**

Course No.	150P
Grade	10-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	$64.00-Includes AP Exam Fee

Financial Literacy

The Financial Literacy course will cover six important themes that will prepare students for life outside of high school: - Financial responsibility and decision-making - Planning and money management - Being an informed consumer - Credit and debt - Risk management and insurance This course also focuses upon the mandatory components of financial literacy as required by State law SB 311. **Mandatory requirement for class of 2026 and beyond.**

Course No.	172
Grade	10-12
Credit	1/2
Periods Per Week	5
Length of Course	Semester
Prerequisite	None
Fee	None

Social Psychology

This course deals with the accurate description, prediction, and control of human behavior. It is also the study of some elements of human relationships. Through class discussion, experiments, demonstrations, and lectures, the student will understand how past experiences influence behavior and perceptions of individuals and groups.

Course No.	173
Grade	11-12
Credit	1/2
Periods Per Week	5
Length of Course	Semester
Prerequisite	None
Fee	None

Topics in Social Studies

A special topic, which focuses on the unique interests of students and teachers in each building, may be offered. A variety of methods and resources may be utilized, depending on the subject matter of each course. Topics and course titles vary in each building.

Normandy:
1450A-Current Events/Global Issues
1450E - Sports in American History
1450C - Cold War Vietnam War
1450D-The History of Cleveland

Valley Forge:
1450A-Current Events/Global Issues
1450B - Street Law
1450C - Cold War/Vietnam War
1450D-The History of Cleveland

Course No.	145
Grade	10-12
Credit	1/2
Periods Per Week	5
Length of Course	Semester
Prerequisite	None
Fee	None

SOCIAL STUDIES COURSES



U.S. Government

This course offers practical information, which emphasizes understanding the Constitution, the voting process, and the financing of government services. Additional units outline how the various levels of government function and how foreign policy is determined.

Course No.	167
Grade	11-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	$15.00

U.S. History

American history is studied from the 1876 Industrial Period to the present in chronological sequence. This course will provide students with knowledge and understanding of our country's past, as well as the skills of critical thinking and analysis that are necessary for good citizenship in our society.

Course No.	113
Grade	9
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	None

U.S. History - Honors

American history is studied from the 1876 Industrial Period to the present in chronological sequence. Students will analyze primary source documents, write historical essays, and develop critical thinking skills necessary for success in future AP classes.

Course No.	113H
Grade	9
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	None

World History

This is a survey course that traces history from the Enlightenment to the modern era. This course focuses on the concepts, events and individuals that helped to develop the world in which we live.

Course No.	150
Grade	10-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	None

WORLD LANGUAGES COURSES



Note:
- Three years of a world language is strongly recommended for admittance to many programs within universities.
- Students who complete advanced coursework and assessments in World Languages may be eligible to obtain the Seal of Biliteracy. Students interested in receiving this seal at graduation should meet with their school counselor to discuss details of the process.

For information on the Seal of Biliteracy, please visit the Ohio Department of Education website https://education.ohio.gov or CLICKING HERE

American Sign Language I

This course is an introduction to both the expressive and receptive nature of American Sign Language (ASL), a visual language that consists of hand sign, body language, and facial expressions as well as a manual alphabet. Topics include the vocabulary and grammatical structure of ASL, deaf culture, and the history of sign language.

Course No.	255
Grade	9-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	$15.00

American Sign Language II

This course continues the work begun in ASL I. Students will continue to develop visual receptive skills, with a focus on visual memory, visual discrimination, and gestural expressive skills, and learn basic ASL vocabulary and grammatical structures. American deaf culture and history will be expanded upon.

Course No.	256
Grade	9-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	ASL I
Fee	$13.00

American Sign Language III

American Sign Language III stresses fluency of expressive and receptive skills for conversational competence and introduces increasingly complex grammatical aspects. This course includes continued study of the deaf culture and will be conducted primarily in American Sign Language. Conversations and active participation are necessary components of this course.

Course No.	257
Grade	10-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	ASL II
Fee	$14.00

WORLD LANGUAGES COURSES



French I

This course develops vocabulary patterns and sentence structure for basic conversation. These are presented and reinforced with a variety of oral language activities and games. Short readings and personal writings are introduced. The emphasis of this class is on developing communication skills through reading, writing, speaking and listening in French while also learning about French history and culture.

Course No.	258
Grade	9-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	$15.00

French II

This course builds upon the concepts learned in French I. Expanded vocabulary and basic grammar are developed to improve communication skills. The emphasis on this class is on developing these skills through reading, writing, speaking, and listening in French. Conversation and active participation are emphasized.

Course No.	259
Grade	9-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	French I
Fee	$15.00

French III

This course focuses on improved fluency in speaking, writing and understanding French. The emphasis of the class is on perfecting communication skills through reading, speaking, writing and listening in French. Conversations and active participation are necessary components of this course. The class will be conducted primarily in French.

Course No.	262
Grade	10-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	French II
Fee	$15.00

French IV Honors

This course continues to develop fluency and accuracy in written and spoken French. Students will demonstrate linguistic and cultural competence in conversation and presentations. While the emphasis is on communication, this course also includes continued study of French history and culture. This course includes selected short stories, compositions, projects, advanced grammar review and current topics. The class will be conducted primarily in French and active participation is required.

Course No.	263H
Grade	11-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	French III
Fee	$15.00

WORLD LANGUAGES COURSES



French V Advanced Placement

This course is designed to prepare students for success on the Advanced Placement French exam and the demands of college level coursework. This course is conducted primarily in French. Success on an AP exam may result in eligibility for college credit. **Students will be expected to take the AP Exam in May.**

Course No.	264P
Grade	12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	French IV
Fee	$40.00-Includes AP Exam Fee

Spanish I

This course develops vocabulary and sentence structures for basic conversation. The information is presented and reinforced with a variety of oral and written language activities and games. Short readings and writings are also introduced. The emphasis of the class is on developing communication skills through reading, writing, speaking and listening in Spanish, while also learning history and Latino culture.

Course No.	283
Grade	9-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	None
Fee	$15.00

Spanish II

Building on the concepts in Spanish 1, this course uses expanded vocabulary and grammar to develop and improve communication skills. The emphasis of the class is on developing these skills through reading, writing, speaking and listening in Spanish. Conversation and active participation are emphasized. The study of history and Latino culture will continue.

Course No.	284
Grade	9-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Spanish I
Fee	$15.00

Spanish III

This course focuses on improved fluency in speaking, writing and understanding Spanish. The emphasis of the class is on perfecting communication skills through reading, speaking, writing and listening in Spanish. Conversations and active participation are necessary components of this course. The class will be conducted primarily in Spanish.

Course No.	287
Grade	10-12
Credit	1
Periods Per Week	5
Length of Course	Year
Prerequisite	Spanish II
Fee	$15.00

WORLD LANGUAGES COURSES



Spanish IV Honors

This course continues to develop fluency and accuracy in spoken and written Spanish. Students will demonstrate linguistic and cultural competence in conversation and presentations. While emphasizing critical thinking, there is continued reading and writing centered on concepts of the Spanish culture. The class will be conducted primarily in Spanish and active participation is required. **Students will be expected to take the AP Exam in May.**	Course No.	288H
	Grade	11-12
	Credit	1
	Periods Per Week	5
	Length of Course	Year
	Prerequisite	Spanish III
	Fee	$15.00

Spanish V Advanced Placement

This course is designed to prepare students for success on the Advanced Placement Spanish exam and the demands of college level coursework. This course is conducted primarily in Spanish. Success on an AP exam may result in eligibility for college credit. **Students will be expected to take the AP Exam in May.**	Course No.	289P
	Grade	12
	Credit	1
	Periods Per Week	5
	Length of Course	Year
	Prerequisite	Spanish IV
	Fee	$40.00-Includes AP Exam Fee