



2023  
2024

# Parkway High School Curriculum Guide

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# Ohio's High School Graduation Requirements Classes of 2023 and Beyond

## STEP #1 – Earn the Required Credits – 22 Total Credits

English	4 Credits	
Math	4 Credits	1 credit earned in 8 <sup>th</sup> grade 1 credit must be Algebra II or equiv.
Science	3 Credits	1 credit Life Science 1 credit Physical Sci. (earned in 8 <sup>th</sup> grade) 1 credit Adv. Science
Social Studies	3 Credits	1 cr. American History 1 cr. World History 1 cr. Civics
Health	½ Credit	
Phys Ed.	½ credit	2 PE courses or Opt Out option
Electives	7 credits	(class of 2026: ½ cr. Financial Literacy

Timeline for required credits:

Grade 9	Grade 10	Grade 11	Grade 12
<ul style="list-style-type: none"> <li>✓ English</li> <li>✓ Math</li> <li>✓ Life Science</li> <li>✓ World History</li> <li>✓ Health</li> <li>✓ Phys Ed</li> <li>✓ 2 electives</li> </ul>	<ul style="list-style-type: none"> <li>✓ English</li> <li>✓ Math</li> <li>✓ Adv. Science</li> <li>✓ Am. History</li> <li>✓ 3 electives</li> </ul>	<ul style="list-style-type: none"> <li>✓ English</li> <li>✓ Math</li> <li>✓ Civics</li> <li>✓ Financial Literacy (2026 &amp; beyond)</li> <li>✓ 3.5 electives</li> </ul>	<ul style="list-style-type: none"> <li>✓ English</li> <li>✓ 5 electives</li> </ul>

Note: As the grade levels increase, so to the number of elective credits. This is intended to allow the students to concentrate on a chosen path of study (college-bound, CCP, career-tech, etc.)

## STEP #2 – Show Competency

**Plan A:** Earn a competent score on Algebra I and English II EOCs.

-If this plan fails, there are 3 options...

Option 1: Demonstrate Two Career Focused Activities

- one foundational (proficient scores on WebXams, 12-point industry credential, or pre-apprenticeship program)

AND

- one supporting (Work-based learning, proficient WorkKeys Exam, or OhioMeansJobs Readiness Seal)

Option 2: Enlist in the Military

- show evidence that you have signed a contract to enter a branch of the US armed services upon graduation

Option 3: Complete College Coursework

- Earn credit for one college-level math and/or college-level English course through College Credit Plus

# Ohio's High School Graduation Requirements

## Classes of 2023 and Beyond, continued

### Step #3 – Show Readiness

As part of the new graduation requirement, students will be required to show readiness by earning 2 of the new "SEALS" created by the Department of Education.

- These seals allow students to concentrate in their area of strength and greater flexibility.
- DON'T PANIC! Your school counselor will meet with students to help determine future goals and help them determine which seals they will pursue.

**The Seals** (TWO or more Seals required, at least ONE of the two must be OHIO DESIGNED):

#### **Ohio Designed Seals:**

**OhioMeansJobs Readiness Seal** (form available)

**Industry-Recognized Credential Seal** (mainly available through Vantage)

**College-Ready Seal** (remediation-free scores on ACT or SAT)

**Military Enlistment Seal** (evidence of enlistment)

**Citizenship Seal** (proficient scores on Am. History & Government EOCs or A/B in equivalent courses)

**Science Seal** (proficient score on Biology EOC or A/B in advanced science course)

**Honors Diploma Seal** (earn any of the six Honors Diplomas)

**Seal of Biliteracy** (prove language proficiency through a test-based option and proficient score on ELA II EOC)

**Technology Seal** (A/B on approved CCP course or another course that meets the guidelines)

#### **Locally Designed Seals:**

**Community Service Seal:** a student must complete community service aligned with guidelines adopted by the Parkway Local Schools Board of Education.

1. The student must successfully complete no less than **six (6) hours** of community service during high school in a high-quality community service experience.
2. Community service must be completed with an approved charitable organization which is preferably located and registered as a nonprofit organization in Ohio.
3. Community service experiences must be approved by the High School Principal or High School Guidance Counselor in advance.
4. Community service hours must be documented and verified by an individual at the community service organization before they are submitted to the High School Principal for final approval.

**Fine & Performing Arts Seal:** a student must demonstrate skills in the area of fine or performing arts aligned with guidelines adopted by the Parkway Local Schools Board of Education.

1. The student must earn at least three (3) credits of approved fine arts program electives in two (2) of the following disciplines: visual arts, music, or media arts during high school OR credit in any out of school arts program as approved by the high school principal.

**Student Engagement Seal:** a student must have meaningful participation in at least three (3) school-related activities such as athletics, recognized school clubs, or student government.

1. The student must participate in the entire scheduled season of the activity.
2. Participation must be verified by the program advisor or coach.
3. The student may claim only one (1) unit for a particular sport or activity regardless of participation in that sport/club for multiple years
4. The student must have a minimum of one unit of non-athletic activity.

## FAQs

### ***How do I move on to different grade levels?***

Students will be placed in grades according to the following number of years at the High School.

Grade 09 – First Year (Freshman)

Grade 11 – Third Year (Junior)

Grade 10 – Second Year (Sophomore)

Grade 12 – Fourth Year (Senior)

### ***How do I know what courses to choose?***

Your counselor will help you in choosing courses that both prepare you for your graduation and for your future. Full year courses are worth 1 credit and semester courses are worth 0.5 credits. You will be advised to take at least 1 of each of four core courses each year (English, math, science, and social studies) and to choose electives based on your interests and goals.

### ***Can I change my courses after the initial registration?***

Following the initial registration, course change requests will be allowed only after the counselor has had a conference with the student. A course change form will need to be completed and signed by a parent/guardian. Once a course has started, a course change must be made within the first 5 days of the start of the school year. After that, a course change will only be allowed under special circumstances.

### ***What if I have one of those special circumstances that requires me to drop a class after the first 5 days of class?***

If you drop a class after the first 5 days of class, you will receive an "F" for the course. Remember, you must complete a course to earn credit.

### ***How many classes do I have to take each year?***

Unless you are in a program that states otherwise (IEP, Section 504, Co-Op), you will be expected to maintain 7 credits each year.

### ***What if I want to go to Vantage?***

Vantage has programs for juniors and seniors. The programs are designed to be 2-year programs (both junior & senior years). During your sophomore year, you will have an opportunity to visit Vantage to explore the programs available. If you decide that you would like to attend Vantage, you will complete an application spring of your sophomore year. GRADES AND ATTENDANCE ARE CRUCIAL! Some of the programs are very competitive. Your grades and attendance will determine if you make the list -- or not. A student attending Vantage is required to remain at Vantage for the entire school year.

### ***Can I take summer school classes?***

You can earn credits through summer school through an approved institution. Credit for summer school will be approved as an educational option and meets state guidelines for such. The following rules are in place for summer school:

- No more than 2 credits shall be granted toward graduation.
- Credit may be earned for a course if the student has failed the course at Parkway
- All summer school courses for credit must have the approval of the principal prior to beginning the work.
- Written documentation of the courses, grades earned, and completion of the course must be received by the principal before credit shall be awarded.
- Cost for any summer school course work shall be the responsibility of the student and/or parent/guardian.
- Any course taken under the Summer School section, either high school or College Credit Plus, shall count towards grade calculation of the class rank.
- Summer school courses will not count towards athletic eligibility

### ***What is the big deal about "GPA"?***

GPA stands for Grade Point Average. For each grade you receive, a certain amount of points goes along with it (see Grading Scales on next page). Classes marked "Weighted GPA" are given points based on the "Weighted Courses" scale. GPA is determined by multiplying the numerical grade value by the credits attempted for each class and dividing the total credits attempted. We figure this for every grading period, and it appears on your grade card as the "Current Period GPA". The "Current Year GPA" is for all of the courses completed for the current year. The "Cumulative GPA" includes ALL courses taken for high school credit. This GPA is very important for college entrance and scholarships. Taking courses that are weighted make a BIG impact on your GPA!

**What courses are weighted courses?**

Parkway High School has 9 weighted classes: Honors English 10, Honors English 11, Honors English 12, Statistics, Calculus, Anatomy & Physiology, Physics, Special Topics & Research in American History, and Spanish IV. Certain CCP courses are also weighted, as determined by CCP rules.

**What is Valedictorian and Salutatorian?**

Based on the Board of Education policy, the student with the highest GPA after the 7<sup>th</sup> semester of high school is considered the Valedictorian and the second-place student will be considered the Salutatorian. If there is a tie for the highest GPA, there will be Co-Valedictorians, with no Salutatorian. If there is a tie for second place, there will be Co-Salutatorians.

**What is College Credit Plus (CCP) and can I do it?**

College Credit Plus is a statewide initiative that allows high school students to take college courses for high school and college credit. For more information, see your counselor or visit [www.OhioHigherEd.org](http://www.OhioHigherEd.org).

**Do I have to leave Parkway to take CCP courses?**

No! Parkway offers several in-house CCP courses. CCP courses offered at Parkway include:

NSCC-BIO101-Principles of Biology (Adv. Bio)	4 cr.hrs./Year
NCSS-BIO150-The Human Body (A&P)	4 cr.hrs./Year
NSCC-STAI20-Introduction to Statistics	3 cr.hrs./Year
NSCC-MTH109-College Algebra (Adv. Math)	3 cr.hrs./Year
NSCC-MTH213-Calculus I	5 cr.hrs./Year
NSCC-MTH214-Calculus II	5 cr.hrs./Year
NSCC-CIS114-Microsoft Applications	3 cr.hrs/Sem
NSCC-MGT110-Management	3 cr.hrs/Sem
NSCC-ACC111-Financial Accounting	3 cr.hrs./Year
NSCC-ENG110-Composition I (H Eng.11)	3 cr.hrs./Year
NSCC-ENG112-Composition II (H Eng.12)(pending)	3 cr.hrs./Year
NSCC-ENG217-Intro to Creative Writing (pending)	3 cr.hrs/Sem

**What is the Point System for computing GPA?****REGULAR COURSES**

A	=	4.0
A-	=	3.6
B+	=	3.4
B	=	3.0
B-	=	2.6
C+	=	2.4
C	=	2.0
C-	=	1.6
D+	=	1.4
D	=	1.0
D-	=	0.6
F	=	0.0

**WEIGHTED COURSES**

A	=	4.4
A-	=	4.0
B+	=	3.6
B	=	3.4
B-	=	3.0
C+	=	2.6
C	=	2.4
C-	=	2.0
D+	=	1.6
D	=	1.4
D-	=	1.0
F	=	0.0



Department  
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## Ohio High School Honors Diploma

Criterion	Ohio Diploma	Academic Honors Diploma	International Baccalaureate Honors Diploma	Career Tech Honors Diploma	STEM Honors Diploma	Arts Honors Diploma (Includes dance, drama/theatre, music, and visual art)	Social Science & Civic Engagement Honors Diploma
<b>Math</b>	4 units, must include one unit of algebra II or equivalent	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	5 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content <sup>4</sup>	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content	4 units, Algebra I, Geometry, Algebra II (or equivalent), and one other higher level course or 4 course sequence that contains equivalent or higher content
<b>Science</b>	3 units	4 units, including two units of advanced science <sup>2</sup>	4 units, biology, chemistry, and at least one additional advance science <sup>2</sup>	4 units, including two units of advanced science <sup>2</sup>	5 units, including two units of advanced science <sup>2</sup>	3 units, including one unit of advanced science <sup>2</sup>	3 units, including one unit of advanced science <sup>2</sup>
<b>Social Studies</b>	3 units	4 units	4 units	4 units	3 units	3 units	5 units
<b>World Languages</b>	N/A	3 units of one world language, or no less than 2 units of each of two world languages studied	4 units minimum, with at least 2 units in each language 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
<b>Fine Arts</b>	2 Semesters	1 unit	1 unit	N/A	1 unit	4 units	1 unit
<b>Electives</b>	5 units	N/A	N/A	4 units of Career-Technical minimum <sup>3</sup>	2 units with a focus in STEM courses	2 units with a focus in fine arts course work	3 units with a focus in social sciences and/or civics
<b>GPA</b>	N/A	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale	3.5 on a 4.0 scale
<b>ACT/SAT/WorkKeys<sup>1</sup></b>	N/A	27 ACT/1280 SAT <sup>1</sup>	27 ACT/1280 SAT <sup>1</sup>	27 ACT/1280 SAT <sup>1</sup> /WorkKeys (6 Reading for Information & 6 Applied Mathematics) <sup>7</sup>	27 ACT/1280 SAT <sup>1</sup>	27 ACT/1280 SAT <sup>1</sup>	27 ACT/1280 SAT <sup>1</sup>
<b>Field Experience</b>	N/A	N/A	Complete a field experience and document the experience in a portfolio specific to the student's area of focus <sup>5</sup>	Complete a field experience and document the experience in a portfolio specific to the student's area of focus <sup>5</sup>	Complete a field experience and document the experience in a portfolio specific to the student's area of focus <sup>5</sup>	Complete a field experience and document the experience in a portfolio specific to the student's area of focus <sup>5</sup>	Complete a field experience and document the experience in a portfolio specific to the student's area of focus <sup>5</sup>
<b>Portfolio</b>	N/A	N/A	Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the student's area of focus that is reviewed and validated by external experts <sup>6</sup>	Develop a comprehensive portfolio of work based on the student's field experience or a topic related to the student's area of focus that is reviewed and validated by external experts <sup>6</sup>	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus that is reviewed and validated by external experts <sup>6</sup>	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus that is reviewed and validated by external experts <sup>6</sup>	Develop a comprehensive portfolio of work based on the student's field experience or a topic that is related to the student's area of focus that is reviewed and validated by external experts <sup>6</sup>
<b>Additional Assessments</b>	N/A	N/A	N/A	Earn an industry-recognized credential or achieve proficiency benchmark for appropriate Ohio Career-Technical Competency Assessment or equivalent	N/A	N/A	N/A

NOTE: Items shaded in blue are changes that were made to the honors diploma system, including the entire STEM, Arts, and Social Science and Civic Engagement Honors Diplomas

1/24/17





## AGRICULTURE / STEM

### **1011 AGRICULTURE, FOOD AND NATURAL RESOURCES (Elective Science)**

Grades 9-12 Year Course/1.00 Credit Pre or Corequisite: Biology or Applied Biology Fees: \$20.00 + \$25.00 Dues

This first course in the career field is an introduction to Agricultural and Environmental Systems. Students will be introduced to the scope of the Agricultural and Environmental Systems career field. They will examine principles of food science, natural resource management, animal science & management, plant & horticultural science, power technology and bioscience. Students will examine the FFA organization and Supervised Agricultural Experience programs. Throughout the course, students will develop communication, leadership and business skills essential to the agriculture industry. A home improvement or community service project is required each nine weeks.

### **1021 AGRONOMIC SYSTEMS**

Grades 10-12 Year Course / 1.00 Credit Prerequisite: Ag, Food and Natural Resources Fees: @25.00 + \$25.00 Dues

Satisfies Advanced Science Requirement

Does not qualify for NCAA

Students will apply knowledge and skills required to research, develop, produce and market major agricultural and horticultural crops. Cultural and sustainable production practices will be examined while students apply scientific knowledge of plant development, nutrition, and growth regulation. The knowledge and skills needed to manage water, soils, and pests related to agronomic crops will be assessed. Students will employ technological advances, communication, business, and management strategies appropriate for the industry.

### **1012 GREENHOUSE & NURSERY MGT**

Grades 10-12 Year Course / 1.00 Credit Prerequisite: Ag, Food and Natural Resources Fees: \$20.00 + \$25.00 Dues

In this course, students will learn the practices needed for the successful growth of greenhouse plants. They will learn essential greenhouse practices including water and fertilizer distribution, lighting, ventilation, and temperature control. Students will learn pest and disease identification and control along with biosecurity practices. They will demonstrate knowledge of propagation methods, plant health, and nutrition. In addition, business and employability skills will be emphasized.

### **1022 MECHANICAL PRINCIPLES**

Grades 11-12 Year Course / 1.00 Credit Prerequisite: Agronomic Systems Fees: \$30.00 + \$25.00 Dues

Students will engage in the mechanical principles utilized in animal and plant production systems. They will learn electrical theory, design, wiring, hydraulic and pneumatic theory, along with metallurgy in relation to hot and cold metals. Students will apply knowledge of sheet metal fabrication applicable to the agricultural industry and be able to identify, diagnose, and maintain small air-cooled engines. Throughout the course, students will learn critical components of site and personal safety as well as communication and leadership skills.

### **1015 BUSINESS MANAGEMENT FOR AGRI. AND ENVIRONMENTAL SYSTEMS**

Grade 12 Year Course / 1.00 Credit Prerequisite: Mechanical Principles Fees: \$20.00 + \$25.00 Dues

Learners will examine elements of business, identify organizational structures and identify and apply management skills. Learners will develop business marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Learners will practice customer sales techniques and apply concepts of ethics and professionalism while understanding related business regulations. A home improvement or community service project is required each nine weeks.

### **1017 AGRICULTURAL AND ENVIRONMENTAL SYSTEMS CAPSTONE (JUNIOR CO-OP)**

Grade 11 & 12 Year Course / 2.00 Credit Corequisite: Mech. Princ. or Business Mgt.

Independent Course - students will be released from school for up to 2 periods (periods 8&9)

The capstone course is an opportunity for students to solve problems and demonstrate that they have achieved the requisite knowledge and skills in their chosen Agricultural and Environmental Systems career field pathway. This course is designed to assess cognitive, affective and psychomotor learning and to do so in a student-centered and student-directed manner. The capstone requires the application of learning to a project that serves as an instrument of evaluation.

### **1016 AGRICULTURAL AND ENVIRONMENTAL SYSTEMS CAPSTONE (SENIOR CO-OP)**

Grade 12 Year Course/ 3.00 Credits Co-requisite: Business Mgt.

Independent Course - students will be released from school for up to 5 periods (periods 5-9)

The capstone course is an opportunity for students to solve problems and demonstrate that they have achieved the requisite knowledge and skills in their chosen Agricultural and Environmental Systems career field pathway. This course is designed to assess cognitive, affective and psychomotor learning and to do so in a student-centered and student-directed manner. The capstone requires the application of learning to a project that serves as an instrument of evaluation.

### **1701 FOUNDATIONS OF AGRICULTURE SHOP CAPSTONE**

Grades 9-12 Sem. Course/.50 Credit Prerequisite: Intro to Engineering Design Fees: \$20.00

Students will be able to: Plan and Layout Projects; Identify Different Types of Woods, Wood Joints, and Fasteners; Use Hand Tools and Power Machines Properly; Apply Glues, Stains, and Finish Properly; 1-2 Projects Will Be Completed for a Grade; Demonstrate Good Safety Practices When Working in the Shop

### **1702 INTERMEDIATE AGRICULTURE SHOP CAPSTONE**

Grades 10-12 Sem. Course/.50 Credit Prerequisite: Foundations of Ag Shop Fees: 20.00

Students will demonstrate their knowledge and skill gained in Foundations of Ag Shop Capstone. The student will build more advanced products and develop skills in cabinetry. Students must be willing to follow all safety rules and regulations during this course.

**1716 ADVANCED AGRICULTURE SHOP CAPSTONE**

Grades 10-12 Sem. Course/.50 Credit Prerequisite: Intermediate Ag Shop Capstone Fees: \$20.00

The student will work on a major project of his/her preference under the supervision of the instructor. No tests will be given, but the project or projects and plan packet must be completed by the time allowed to receive any credit. A tentative set of plans must be completed the semester before and submitted for approval. (only special situations would there be allowed any change)

**1023 AG CAPSTONE IN-SCHOOL**

Gr 10-12 Year Course / 1.00 Credit Co-requisite: any AG class Fees: \$30.00

The capstone course is an opportunity for students to solve problems and demonstrate that they have achieved the requisite knowledge and skills in their chosen Agricultural and Environmental Systems career field pathway. This course is designed to allow students to develop their hands-on skills in computer guided machinery including the Plasma Cam, CNC Router and Laser. Students will learn to Corel Draw, Corel Paint and V-Carve software.

**1709 ENERGY SYSTEMS CAPSTONE**

Grades 9-12 Sem. Course/.50 Credit Fees: \$20.00

In this class students will be able to explain the basic theory of electricity, identify and use elections tools correctly, identify different types of circuits and electrical parts, wire electrical circuits, read and identify electrical symbols, and wiring diagrams, troubleshoot common agricultural situation, and demonstrate good safety practices

**1718 AG METAL WORKING CAPSTONE**

Grades 10-12 Sem. Course/.50 Credit Prerequisite: Intro to Engineering Design Fees: \$25.00

In this class students will identify different types of metals and their characteristics, read and apply blueprints, identify and use measuring tools, and use power machines properly. Explain and apply heat treating techniques, identify and evaluate fabrication processes and apply welding techniques. Throughout the course, you will learn critical components of site and personal safety as well as communication and leadership skills.

**1719 AG POWER TECH CAPSTONE**

Grades 10-12 Sem. Course/.50 Credit Fees: \$20.00

Within this course students will explore agriculture through the engines that run the industry. They will identify the different parts on small engines, identify and use measuring tools correctly, collect and apply the correct specifications for the internal combustion engine, identify and explain the different systems of an engine, disassemble and reassemble a four-cycle engine, and explain the difference between a 4 stroke and 2 stroke cycle engine. Throughout the course, you will learn critical components of site and personal safety as well as communication and leadership skills.

**1025 AG LEADERSHIP CAPSTONE**

FFA Officers Year Course / 1.0 Credit

This course is designed to give students the tools they need to develop premier leadership, personal growth, and career success. They will be introduced to a variety of different leadership styles, abilities, and skills. Application of leadership theories and principles will be applied through projects during the school year that align with the students' academic and/or career interest. Students will plan, conduct, and report their projects on a weekly basis. Throughout the course, they will explore communication, leadership, and business skills essential to the Parkway Community and Agriculture Industry.

**1713 INTRO TO ENGINEERING DESIGN**

Grades 9-12 Sem. Course/.50 Credit Fees: \$10.00

Students will be able to: Identify and use drafting tools and develop good drawing techniques; Visualize and draw objects in different types of drawing styles; Understand and apply standard mechanical drawing and dimensioning techniques; Draw and understand basic use of the 3D drawing program "Sketch Up"

**1711 ENGINEERING DESIGN**

Grades 9-12 Sem. Course/.50 Credit Prerequisite: Intro to Engineering Design Fees: \$10.00

The student will be introduced to the computer as a drafting tool. They will become familiar with the program and basis uses and complete assigned projects which will be plotted. Practical projects using CNC applications may be completed. 2D and 3D projects will be drawn (solid modelling). Each student will keep a portfolio of drawings completed.

**1714 ENGINEERING DESIGN II**

Grades 10-12 Sem. Course/.50 Credit Prerequisite: Engineering Design Fees: \$10.00

The focus of Engineering Design is the application of the engineering design process. Topics include work-processes, optimization methods, design optimization, and risk management tools. Students will use 2D and 3D modeling software to help them design solutions to solve proposed problems, document their work, and communicate solutions.

**1730 INTRO TO ENGINEERING PRINCIPLES**

Grades 9-12 Sem. Course/.50 Credit Fees: \$10.00

This course will introduce students to fundamental engineering concepts and scientific principles associated with engineering design applications. Topics include mechanisms, energy, statics, materials, and kinematics. Students will learn to apply problem solving, research and design skills to create solutions to basic engineering challenges.

**1715 ROBOTICS**

Grades 9-12 Sem. Course/.50 Credit Fees \$10.00

Students trace the history, development, and influence of robotics. They learn about computer control systems, and use a robust robotics platform to design, build and program a solution to solve an existing problem.

# ART

## **1100 ART I**

Grades 9-12 Year Course / 1.00 Credit

Fees: \$35.00

Entry-level art course. Objective is to instill historical knowledge, as well as knowledge of the elements and principles of design which will be used to create unique artistic creations in a variety of different mediums. This also serves as the groundwork for future artistic study. The course provides an individual with the means to appreciate and operate in an increasing visual world. Hard work is required.

## **1102 CERAMICS**

Grades 10-12 Sem. Course/.50 Credit

Prerequisite: Art I

Fees: \$35.00

The student will create functional pottery utilizing hand building or wheel throwing techniques and will explore various decorative techniques while utilizing the elements and principles of design. The workload is heavy, the process is messy, but the results are rewarding.

## **1103 ADVANCED CERAMICS**

Grades 10-12 Sem. Course/.50 Credit

Prerequisite: Ceramics, Art I

Fees: \$35.00

For those students who excelled in the beginning ceramic course. The student will utilize hand building and wheel throwing methods of construction throughout the duration of the course. The assignments will be on a much larger scale in both size and artistic expression. Students participating in this course of study must have a solid work ethic and detailed knowledge of the elements and principles of design.

## **1104 DRAWING**

Grades 10-12 Sem. Course/.50 Credit

Prerequisite: Art I

Fees: \$35.00

This course builds on the knowledge attained in Art I. Various drawing mediums are explored, and a variety of elements and principles of design are examined. A great deal of the class concentrates on developing the ability to capture the human form. Historical events, places, and dates are discussed. The course begins to hone individual drawing skills, as well as develop the ability to analyze fine art.

## **1105 PAINTING**

Grades 10-12 Sem. Course/.50 Credit

Prerequisite: Art I and Drawing & Painting

Fees: \$35.00

This course builds further on knowledge attained in Art I and Drawing. Historical aspects are explored, with a focus on the elements and principles of design. The course takes a long look at color and the effects it can produce and also begins to direct an individual towards a particular artistic style. This unique artistic style will not become a mature style in this brief time period, but it will begin the process for these future artists.

## **1106 SCULPTURE**

Grades 10-12 Sem. Course/.50 Credit

Prerequisite: Art I, Drawing and Painting

Fees: \$35.00

Sculpture is an advanced art course that focuses specifically on the creation of three-dimensional art. This course will explore the historical aspects of sculpture, as well as the techniques that are needed to produce three-dimensional pieces. This course is only for those students who are serious about their artwork or interested in art as a career. The workload is heavy and the work is messy. A strong work ethic and time on task is necessary to succeed.

## **1116 INTERACTIVE MEDIA**

Grades 10-12 Sem. Course/.50 Credit

Prerequisite: Art I

Fees: \$25.00

This course will focus on the development of characters for animation. Students will learn the process of Storyboarding, Character Creation, and basics of animation. Students will also learn the basics of the computer animation program. Course can be taken independently.

## **1117 ADVANCED INTERACTIVE MEDIA**

Grades 10-12 Sem. Course/.50 Credit

Prerequisite: Art I & Interactive Media

Fees: \$25.00

This course will build off of the knowledge gained in interactive media. Students will continue to develop skills in storyboarding and character creation. Students will also learn more complex forms of animation along with the more complex aspects of the animation program. Course can be taken independently.

## **1119 DIGITAL MEDIA AND DESIGN**

Grades 10-12 Sem. Course/.50 Credit

Prerequisite: Art I

Fees: \$25.00

Digital media and design is an advanced art course for students who may be interested in graphic design as a career. In this course students will utilize traditional artistic methods as well as digital artistic methods. Students will explore various forms of printing and be challenged with a variety of real-world graphic design assignments. This course will give students a better understanding of graphic design as a career path.

## **1118 ADVANCED DIGITAL MEDIA & DESIGN**

Grades 10-12 Sem. Course/.50 Credit

Prerequisite: Art I & Digital Media and Design

Fees: \$25.00

Advanced Digital media and design is an art course that builds on the concepts learned in Digital media and design. In this course students will continue to refine their ability to create with the computer. The students will also explore logo creation and branding.

## BUSINESS

### **1242 INTRODUCTION TO BUSINESS**

Grades 9-12 Sem. Course/.50 Credit

This course is an introduction to business concepts, organizational skills, management, basic communication skills, and emotional intelligence. This course is a starting point in the pathway for a business or technical career.

### **1243 PERSONAL FINANCE**

Grades 10-12 Sem. Course/.50 Credit

In this course, students will develop personal financial plans for individual personal well-being and will develop financial literacy skills to provide a basis for responsible citizenship and career success. Additional topics will include analyzing services from financial institutions, consumer protection, and investing and risk management.

### **1235 MICROSOFT APPLICATIONS / CIS114 MICROSOFT APPLICATIONS CCP 3 cr.hr.**

Grades 10-12 Sem. Course/.50 Credit

Fees: \$14.00

This course is a basic course in which the student learns to operate the personal computer using four components of Microsoft Office software: Microsoft Word, Excel, Access, and PowerPoint. All the basic program functions will be covered for each package, as well as many advanced functions. A basic knowledge of the keyboard is helpful. Students may earn the Technology Seal by completing the CCP course.

### **1226 INTRODUCTION TO LAW**

Grades 10-12 Semester Course / .50 Credit

This course focuses on the study of business law. This course is recommended for students planning to major in business.

### **1238 INTRODUCTION TO MARKETING**

Gr 10-12 Sem. Course/.50 Credit

Students will explore the world of marketing and how marketing affects their daily life. Topics will include market segments, demographics, direct marketing, indirect marketing, and advertising. Students will have a better understanding of how to sell a product in various conditions and within different markets, and how to work with various advertising mediums within the advertising world.

### **1218 DIGITAL VIDEO**

Gr. 10-12 Semester Course / .50 Credit

Fees: \$5.00

Through hands-on learning, students will write and film an episode. Students will create an epic script, draw storyboards, film, edit film, and submit our episode in a national contest. Students will also gain essential skills such as communication, teamwork, and networking.

### **1228 MANAGEMENT / MGT110 MANAGEMENT CCP 3 cr.hr.**

Fees: \$14.00

Gr. 10-12 Sem. Course/.50 Credit Prerequisite: Intro to Business or Instructor Approval

This course focuses on the principles of coordinating an organization's objectives. Major emphasis is devoted to the four management functions: planning, organizing, leading, and controlling. Issues such as decision making, communication, motivation, leadership, diversity, social responsibility and ethics, and global management are addressed.

### **1224 ACCOUNTING AND BUSINESS FINANCE / ACC111 FINANCIAL ACCOUNTING CCP 3 cr.hr.**

Gr 10-12 Year Course / 1.00 Credit

Fees: \$15.00

This course includes a study of the accounting cycle beginning with the business transaction and ending with the preparation of financial statements along with other period end procedures for both sole proprietors as well as corporations. Other topics include: receivables, inventory, depreciation, liabilities, investments, and stock.

### **1203 ACCOUNTING II**

Grades 11-12 Year Course / 1.00 Credit Prerequisite: Accounting and Business Finance

Fees: \$15.00

The first semester of this course will be spent working on computerized accounting. The second semester will be spent working on units on Control Accounting, Corporate Accounting, Sales Accounting, Departmental Accounting, etc. Students will also learn the financial functions of Excel in this course.

### **1239 COMMUNICATIONS**

Grades 11-12 (Grade 10 with teacher approval) Sem. Course/.50 Credit

Prerequisite: C or Better in Previous Year's English

The purpose of this course is to explore various types of verbal and nonverbal communication. For the first quarter of the class, the emphasis will be traditional speeches such as informational, demonstrative, argumentative/debate, etc. for the second quarter of the class, interviewing skills for various types of interviewing opportunities will be addressed and practiced.

### **1107 YEARBOOK**

Grades 10-12 Year Course / 1.00 Credit Prerequisite: B or Better in English Previous Year

Yearbook is one part of this course of study that designs and creates a historical record of the years' events. Students interested in taking this course must apply to be chosen for the yearbook staff. Once chosen, the staff concentrates on photography, layout design, advertising, fund-raisers, and ad sales. The course calls for out of schoolwork and travel between businesses and events. Self-motivation required.

### **1244 MEDIA PRODUCTIONS**

Grades 10-12 Year Course / 1.00 Credit Prerequisite: B or Better in English Previous Year

Students will also be creating the Black and Gold Unfold, which is our district newsletter. Students will be required to gather information, take pictures, write articles, communicate with students and staff, and use Microsoft Word and Serif PagePlus to design their layout and produce a monthly newsletter that is distributed with the Photo Star newspaper.

Students will also produce the morning announcements and will be required to find weather and headlines, run camera and microphones, read announcements on air, and prepare scrolling announcements.

## ENGLISH

### 1301 ENGLISH 9

Grade 9 Year Course / 1.00 Credit

Fees: \$28.50

Students will focus on specific areas of study that are required by the state department of education. Students will work on improving vocabulary skills to learn how to use advanced vocabulary words in their writing and speaking. Students will be working on improving their writing skills through various types of essays and writing assignments, each focused on a major skill that has been taught. Students will read novels focusing on the story elements and literary devices within them. Students will also read and study different stories, poems, and plays in American and British Literature.

### 1302 ENGLISH 10

Grade 10 Year Course / 1.00 Credit

Fees: \$28.75

Students will be introduced to the history, literary elements, and examples of literature in the form of poetry, short stories, novels, and drama in order to understand the making of their own literary heritage. Students will continue their studies using English grammar, sentence complexity, and vocabulary to advance their written composition. In addition to reading and writing, students will give speeches and presentations on various topics. State standardized test components for writing and reading will be addressed and practiced throughout the school year.

### 1330 \*HONORS ENGLISH 10 (Weighted Course)

Grade 10 Year Course / 1.00 Credit

Prerequisite: A Average or Approval of Instructor

Fees: \$31.00

Students will be introduced to the history, literary elements, and examples of literature in the form of poetry, short stories, novels, and drama in order to understand the making of their own literary heritage. Students will continue their studies using English grammar, Sentence Complexity, and Vocabulary to advance their Written Composition in a more complex manner. In addition to reading and writing, students will give speeches and presentations on various topics. Also, state standardized test components for writing and reading will be addressed and practiced throughout the school year. Finally, several additional novels will be read throughout the year in addition to at least one summer reading requirement.

### 1303 ENGLISH 11

Grade 11 Year Course / 1.00 Credit

Fees: \$48.25

Students will be introduced to the history, literary elements, and examples of American literature in the form of poetry, short stories, and drama in order to come to an understanding of the major literary eras in American literature. In addition to studying literature, the students will engage in advanced study of English grammar to further develop the understanding of writing complexity. Students will evaluate and interpret literary elements and the literature they read in various essay forms.

### 1304 ENGLISH 12

Grade 12 Year Course / 1.00 Credit

Fees: \$21.50

Students will be introduced to the history, literary elements, and examples of British and world literature in the form of poetry, short stories, and drama in order to come to an understanding of the major literary eras in English literature. In addition to studying literature, the students will engage in advanced study of English grammar to further develop the understanding of writing complexity. Students will evaluate and interpret literary elements and the literature they read in various essay forms.

### 1308 \*HONORS ENGLISH 11 / ENG111 COMPOSITION I CCP 3 cr. hr. (Weighted Course)

Grade 11 Year Course / 1.00 Credit

Prerequisite: A in English 10 or Approval of Instructor

Fees: \$32.00

Students will be introduced to the history, literary elements, and examples of American literature in the form of poetry, short stories, and drama in order to come to an understanding of the makings of our own literary heritage. In addition, honors students will study literary techniques and terms through the means of a broad range of representative projects. The writings in the course will center on the expository, interpretive, and creative styles of writing. Finally, at least four class novels will be read throughout the year in addition to several self-selected classics.

### 1309 \*HONORS ENGLISH 12 / ENG112 COMPOSITION II CCP 3 cr. hr. (Weighted Course)

Grade 12 Year Course / 1.00 Credit

Prerequisite: A in English 11 or Approval of Instructor

Fees: \$32.25

Literature and Composition

Students will be introduced to the history, literary elements, and examples of British and world literature in the form of poetry, short stories, and drama in order to come to an understanding of the makings of our own literary and language heritage. In addition, honors students will study literary techniques and terms through the means of a broad range of representative projects. The writings in the course will center on the expository, interpretive, and creative styles of writing. Finally, at least four class novels will be read throughout the year in addition to several self-selected classics.

### 1341 MYTHOLOGY

Grades 10-12 Sem. Course / .50 Credit

Prerequisite: C or Better in Previous Year's English

Mythology is a developing course that will focus on the study of Greek and Roman mythology. Students will study myths and legends woven into cultures around the world. Mythology promises to be an exciting elective!

### 1331 CREATIVE WRITING / \*ENG217 INTRODUCTION TO CREATIVE WRITING CCP 3 cr.hr. (Weighted Course)

Grades 11-12 Sem. Course / .50 Credit

Prerequisite: C or Better in Previous Year's English or Approval of Instructor

This workshop course will provide an opportunity for students to compose original writing formulated from observation, experience, and literature. Students will study models of effective writing and apply strategies encountered in those texts to their own original work. Students will work on descriptive, narrative, and persuasive prose, as well as dialogue and poetry. Student writing will be shared with the class and will be evaluated and critiqued by both the instructor and class members.

### **1342 CONTEMPORARY LITERATURE**

Grades 11-12 Sem. Course / .50 Credit Prerequisite: C or Better in English or Approval of Instructor Fees: \$15.00

Contemporary Literature is a semester course that focuses on literature from the 21st century. The class will discuss and analyze several literature genres and ultimately vote on several class novels from each genre to read and analyze using the literature circle method. Through this method, students will examine the issues of our complex, modern world while emphasizing in-depth literacy skills and develop reading and research strategies. This course is dedicated to those who wish to read cutting-edge literature while making deep connections to our modern lives. \*\*Students may be asked to have parent approval before reading novels as content is not pre-approved by the teacher. \*\*Students will need to purchase novels throughout the course.

### **1343 HUMANITIES**

Grades 11-12 Sem. Course / .50 Credit Prerequisite: C average in both history and English classes.

Humanities joins the studies of multiple disciplines including, but not limited to history, literature, art, music, and pulp culture. The class focuses on a specific decade and covers various aspects of that decade that furthers what the students have already learned in the traditional classroom and textbooks. Special emphasis is placed on researching, reading, analyzing, discussing, and presenting material to classmates.

## **FAMILY CONSUMER SCIENCE**

All students enrolling in a Family Consumer Science course will be required to join the Family Consumer Science Club (FCCLA). This will allow the teacher to improve the club activities educationally as well as incorporating leadership skills. The dues will be \$15.00 for each student regardless of the number of courses taken.

### **1629 CHILD DEVELOPMENT**

Grades 9-12 Semester Course / .50 Credit

Fees: \$10.00 Dues \$15.00

In this course, students will study the principles of child growth, development and behavior. An emphasis will be placed on the cognitive development of a child and sensory and motor skills. Additional topics will include childhood diseases, immunizations, and theories of development, learning styles and evaluating childcare services.

### **1630 CULINARY FUNDAMENTALS**

Grades 9-12 Semester Course / .50 Credit

Fees: \$40.00 + Dues \$15.00

In this course, students will apply fundamental culinary techniques, such as knife handling skills and the recognition, selection and proper use of tools and equipment. An emphasis will be placed on Mise en place, the management of time, ingredients and equipment. Students will apply standard recipe conversions using proper scaling and measurement techniques.

### **1631 CAREER AND COLLEGE READINESS**

Grades 11-12 Semester Course / .50 Credit

Fees: Dues \$15

This course is designed to help students explore their college and/or career path. Activities include projects that engage students in investigating and researching their career interests. Students will participate in job shadowing experiences and learn soft skills needed to obtain and retain a job. Interviewing skills and techniques will be covered, and the OhioMeansJobs seal will be earned. This course shows students how classroom learning translates into marketable skills. Project-based learning and local business involvement will engage students in career-related experiences to acquire basic skills to pursue future careers.

### **1633 TEXTILE DESIGN, CONSTRUCTION, AND MAINTENANCE**

Grades 9-12 Semester Course / .50 Credit

Fees: \$40.00 + Dues \$15.00

**\*\*Some materials will need to be purchased on your own\*\***

In this course, students will study the visual appearance of fabric and fashion design. Students will identify, analyze and apply production processes and techniques to textiles. Additional topics will include the maintenance and alterations of textiles products, including home interior accessories and garments.

### **1634 NUTRITION AND WELLNESS**

Grades 9-12 Semester Course / .50 Credit

Fees: \$40.00 + Dues \$15.00

In this course, students will use principles of nutrition to ensure a healthy body throughout the lifecycle. An emphasis will be placed on planning and preparing meals with an understanding of nutrients and their benefits, portion control and dietary needs. Additional information will include body weight and management and the implementation of physical activity to maintain a healthy lifestyle.

### **1635 GLOBAL FOODS**

Grades 9-12 Semester Course / .50 Credit

Fees: \$40.00 + Dues \$15.00

In this course, students will compare cuisines, ingredients and preferred cooking methods of various cultures. The influence of traditions and regional and cultural perspectives on food choices and culinary practices will be emphasized. Students will examine the issues and conditions that affect the availability and quality of food in the global market.

## FOREIGN LANGUAGE

### 1400 SPANISH I

Grades 9-12 Year Course / 1.00 Credit Prerequisite: C average in English or Perm. from the Instructor Fees: \$16.00

The basic objectives of Spanish I are: Understand and respect Hispanic culture; Comprehend Spanish words, phrases, questions, and paragraphs without much difficulty; Read and be able to pronounce the things mentioned above; Write simple sentences and paragraphs in Spanish; Speak in Spanish phrases and sentences; Evaluation is based on quizzes, tests, homework, projects, and class participation.

### 1401 SPANISH II

Grades 10-12 Year Course / 1.00 Credit Prerequisite: C average in Spanish I or Perm. from the Instructor Fees: \$16.00

The basic objectives of Spanish II are: The students will expand their knowledge of Spanish grammar and vocabulary to include more verb tenses; Listening, speaking, reading, and writing in Spanish will be used; Understand the cultures and traditions of Spanish-speaking countries; Evaluation is based on quizzes, tests, homework, projects, class participation, and oral proficiency.

### 1402 \*SPANISH III (Weighted Course)

Grades 11-12 Year Course / 1.00 Credit Prerequisite: B average in Spanish II or Perm. from the Instructor Fees: \$16.00

The basic objectives of Spanish III are: Expanding vocabulary; Strengthen previous knowledge in areas of grammar and tenses; Continue to study the customs of Spanish-speaking countries; Strengthen composition writing and conversation; Evaluation is based on quizzes, tests, homework, projects, class participation, and oral proficiency.

### 1403 \*SPANISH IV (Weighted Course)

Grade 12 Year Course / 1.00 Credit Prerequisite: B average in Spanish III or Perm. from the Instructor Fees: \$16.00

The basic objectives of Spanish IV are: Strengthening All Objectives of Spanish III; Stress Oral Proficiency, Reading, and Writing. Evaluation is based on quizzes, tests, homework, projects, class participation, and oral proficiency.

### 1425 AMERICAN SIGN LANGUAGE I – ONLINE COURSE

Grades 9-12 Year Course 1.00 Credit Prerequisite: C average in English or teacher approval

Fee: Reimburse course fee if dropped or failed

In ASL I, students will learn basic vocabulary, grammar skills and fingerspelling for novice level communication, and develop a basic understanding of deaf culture and history including exposure to ASL literature and art. This course requires limited participation in deaf culture activities.

### 1428 AMERICAN SIGN LANGUAGE II – ONLINE COURSE

Grades 10-12 Year Course / 1.00 Credit Prerequisite: ASL I or with C or better

Fee: Reimburse course fee if dropped or failed online course

ASL II is a continuation of ASL I. This course expands the novice level of vocabulary, grammatical knowledge, and cultural awareness, and introduces a broader range of grammatical aspects. This course requires limited participation in Deaf Culture activities.

### 1427 AMERICAN SIGN LANGUAGE III – ONLINE COURSE

Grades 11-12 Year Course / 1.00 Credit Prerequisite: ASL II or with C or better

Fee: Reimburse course fee if dropped or failed online course

ASL III is a continuation of ASL II. This course expands the level of vocabulary, grammatical knowledge, and cultural awareness, and introduces a broader range of grammatical aspects. This course requires limited participation in Deaf Culture activities.

### 1431 AMERICAN SIGN LANGUAGE IV – ONLINE COURSE

Grades 11-12 Year Course / 1.00 Credit Prerequisite: ASL III or with C or better

Fee: Reimburse course fee if dropped or failed online course

ASL IV is a continuation of ASL III. This course expands the level of vocabulary, grammatical knowledge, and cultural awareness, and introduces a broader range of grammatical aspects. This course requires limited participation in Deaf Culture activities.

### 1426 GERMAN I – ONLINE COURSE

Grades 9-12 Year Course / 1.00 Credit Prerequisite: C average in English (or by Teacher Approval)

Fee: Reimburse course fee if dropped or failed online course

German I is a class for students with little or no background in the German language. It focuses on providing an interactive and communicative format which places equal emphasis on reading, writing, listening and speaking. The main objective of this course is to expose the learner to everyday concepts in the German speaking world and as a first step in becoming a speaker of German. The course follows Ohio and ACTFL content standards and course curricula. This course presents basic German grammar structures and key vocabulary for everyday situations.

### 1429 GERMAN II – ONLINE COURSE

Grades 10-12 Year Course / 1.00 Credit Prerequisite: C average in German I (or by Teacher Approval)

Fee: Reimburse course fee if dropped or failed online course

German II is a per-intermediate German class for students who have taken German I. It focuses on providing an interactive and communicative format which places equal emphasis on the four skills (reading, writing, listening and speaking). The course follows Ohio and ACTFL content standards and course curricula. This class focuses on German grammar becoming richer throughout the year.

### 1430 GERMAN III - ONLINE COURSE

Grades 10-12 Year Course / 1.00 Credit Prerequisite: C average in German II (or by Teacher Approval)

Fee: Reimburse course fee if dropped or failed online course

German III is an extension of German II. It focuses on providing an interactive and communicative format which places equal emphasis on the four skills. The course follows Ohio and ACTFL (American Council on the Teaching of Foreign Languages) content standards and course curricula. This class focuses on German grammar becoming richer throughout the year.

### 1432 GERMAN IV - ONLINE COURSE

Grades 10-12 Year Course / 1.00 Credit Prerequisite: C average in German III (or by Teacher Approval)

Fee: Reimburse course fee if dropped or failed online course

# MATH

## 1802 ALGEBRA I

Grades 9-11 Year Course / 1.00 Credit

Required Supplies: 3-Ring Notebook and Calculator

The language of Algebra will be learned through the application of various properties, rules, and laws. Topics include: solving more complex equations, graphing linear equations and functions, writing linear equations, solving and graphing linear inequalities, systems of linear equations and inequalities, exponents and exponential functions, quadratic equations, and polynomials and factoring.

## 1803 ALGEBRA II

Grades 9-12 Year Course / 1.00 Credit

Prerequisite: Algebra I

Required Supplies: 3-Ring Notebook and Calculator

Algebra II provides a review and extension of the concepts taught in Algebra I. Topics covered will include equations and inequalities, coordinates and graphs, general functions, polynomial and rational functions, exponential and logarithmic functions and systems of equations and inequalities. Throughout this course, students will develop learning strategies, critical thinking skills, and problem solving techniques to prepare for future math courses and college entrance exams. A 3-ring notebook and calculator are required. Grade based on tests, quizzes, homework and class participation.

## 1805 GEOMETRY

Grades 9-12 Year Course / 1.00 Credit

Pre- or Corequisite: Algebra II

Required Supplies: 3-Ring Notebook and Calculator

Geometry is the investigation of relationships, properties, and theorems of points, lines, planes, and two- and three-dimensional figures. Topics include reasoning and proof, perpendicular and parallel lines, congruent triangles, properties of triangles and quadrilaterals, transformation, similarity, right triangle trigonometry, circles, area of polygons and circles, and surface area and volume.

## 1846 \*STATISTICS / STA120 \*INTRO TO STATISTICS CCP 3 cr.hrs. (Weighted Course)

Grades 11-12 Year Course / 1.00 Credit

Prerequisite: Algebra II; Geometry (Pre or Corequisite)

Required Supplies: 3-Ring Binder

A statistics course that formulates questions that can be addressed with data and collect, organize, and display relevant data to answer them. Select and use appropriate statistical methods to analyze data. Develop and evaluate inferences and predictions that are based on data. Understand and apply basic concepts of probability.

## 1807<sup>\*</sup> QUANTITATIVE REASONING (SENIOR MATH)

Grade 12 or Instructor Approval Year Course / 1.00 Credit

Quantitative Reasoning (QR) is the application of basic mathematics skills, such as algebra, to the analysis and interpretation of quantitative information (numbers and units) in real-world contexts to make decisions relevant to daily life. Critical thinking is its primary objective and outcome. It emphasizes interpretation, representation, calculation, analysis/synthesis, assumptions and communication.

## 1825 \*ADVANCED MATH / MTH109\* COLLEGE ALGEBRA CCP 3 cr.hrs. (Weighted Course)

Grades 10-12 All Year Course / 1.00 Credit

Prerequisite: Algebra II

Required Supplies: 3-Ring Binder

Students taking this class should be able to solve quadratic equations by factoring, completing the square, and using the quadratic formula. They should be familiar with complex numbers and solving rational equations. College Algebra topics include: polynomial, rational, exponential, and logarithmic functions, and graphs. Equations and inequalities are covered including solutions of systems of equations. Application problems build skills in problem solving.

## 1808 \*CALCULUS / MTH213 \*CALCULUS I CCP 5 cr.hrs. (Weighted Course)

Grades 11-12 Year Course / 1.00 Credit

Prerequisite: A or B in Advanced Math or Instructor Approval

Required Supplies: 3-Ring Notebook and Calculator

The student who successfully completes the course will, as a minimum, have sufficient background for the most rigorous college mathematics curriculum and will, at some institutions, be placed into advanced mathematics courses.

Calculus makes extensive use of algebra and geometry, including the idea of functions to which is added the notion of the limit and limiting processes. From this arise the two central concepts of calculus: the derivative and the integral. The derivative can be thought of as a rate of change or slope and the integral as an area. Aside from its importance in pure mathematics, the logical thinking that it motivates, and the purely aesthetic quality of the discipline, calculus finds extensive application in physics, engineering, economics and biology.

## 1809 \*CALCULUS II / MTH214\* CALCULUS II CCP 5 cr.hrs. (Weighted Course)

Grades 11-12 Year Course / 1.00 Credit

Prerequisite: Calculus II

This course is designed for those students who have completed MTH213. Topics include techniques of integration, applications of integrals, sequences and series, introduction to differential equations, conics, and parametric and polar graphing.



## MUSIC

### 1900 BAND

Grades 9-12 Year Course / 1.00 Credit Prerequisite: Member of 8<sup>th</sup> Grade Band or With Permission from the Director

The principal purpose is the development of intelligent musicianship. From participation in this class students should gain not only the skills and techniques necessary for performance, but also an understanding, and appreciation for the music played. These understandings should be both general and specific and should provide a generative basis for continuing participation in music throughout life. The creative and thinking skills developed in this class will also serve as a catalyst for better understanding and performance on the required state proficiency tests. Development of life skills are also an essential part of this class.

Rules and evaluation procedures are listed in the band handbook. These rules and evaluations must be read and agreed to by the class participants, and their parents. Short taped playing assignments, prepared by the student at home, may become a part of the graded evaluation.

### 1901 CHOIR

Grades 9-12 Year Course / 1.00 Credit Prerequisite: Must Have Maintained a C Average in Previous Years of Participation

The purpose of choir is to help the student develop his or her singing voice to the extent that he or she would feel comfortable using their talent after they leave the classroom. Further, to develop an appreciation of many styles and types of music. The creative and thinking skills developed in this class will also serve as a catalyst for better understanding and performance on the required state proficiency tests. Techniques studied include: correct breathing, posture, vowel formation and tone production.

*SCHEDULED REQUIRED PERFORMANCES INCLUDE:* Pops Concert, Christmas Concert, Large Group Adjudicated Events, Solo and Ensemble Event, Spring Concert and Commencement. Other opportunities include District and All-State Choir. Evaluation and grades are affected by classroom participation, attendance at required performances, written semester exams, and individual performance.

### 1906 MUSIC APPRECIATION

Grades 9-12 Semester Course / .50 Credit

Music appreciation is designed to acquaint students with the elements of music while studying the history of Rock and Roll. Students receive a brief overview of Rock and Roll music through each decade. Audio examples, video clips and the internet enhance the overall class experience.

Student understanding is demonstrated through in-class assignments, quizzes and unit exams. Graded projects involve using computers to create new music. This class is open to all students and a musical background is not necessary.

### 1907 MUSIC APPRECIATION II

Grades 9-12 Semester Course / .50 Credit

Music appreciation II is designed to acquaint students with the music of different cultures, communication patterns, rhythms, instruments, sounds, and ways of making music. Audio examples, video clips, and the internet enhance the overall class experience. Students demonstrate understanding through assignments, quizzes, and in-class performance. The class is open to all students, and musical background is unnecessary.

### 1902 MUSIC THEORY

Grades 10-12 Semester Course / .50 Credit Band Director Approval Required

This subject is an independent, self-study, computer-oriented study of the fundamentals of music theory. After the student has worked through the graduated progressions of study, he or she should have a working knowledge of the basics of music theory. This would be an excellent course for those students considering music as a major in college.

## PHYS ED & HEALTH

### 1500 HEALTH

Grade 9-12 Semester Course / .50 Credit

Health is designed to promote mental, physical or social-emotional well-being. The textbook will be used about 75% of the class time to discuss the human body, how it functions, problems we may encounter, and how we should care for it. Evaluation of student's progress will be through weekly quizzes, a 9 weeks test and semester exam.

### 1509 PHYSICAL EDUCATION

Grades 9-12 Semester Course / .25 Credit

Physical Education is designed to encourage physical fitness while developing an appreciation for physical activity. A variety of individual, team and lifetime activities may be implemented to promote a wide range of learning. Evaluation of students will be through skills testing, written tests and daily participation.

### 1510 ADVANCED PHYSICAL EDUCATION

Grades 10-12 Semester Course / .25 Credit Prerequisite: High School PE credit completed.

This elective course is for students who enjoyed the original Physical Education class. It will encourage physical fitness while developing an appreciation for teamwork, competition, and leadership.

### 1508 WEIGHTLIFTING

Grades 10-12 Semester Course / .25 Credit Prerequisite: PE and Health Fees: \$6.00

This elective course in Fitness training is designed to enable student athletes to develop both physically and mentally. This course will concentrate on strength development using weight training and speed development by using agility drills and plyometrics. Weightlifting will make athletes stronger, quicker, and faster. This course is ideal for student athletes in season or out of season. Since this course is an elective, student athletes in season will be given first priority.

## SCIENCE

### 2000 BIOLOGY

Grades 9-11 Year Course / 1.00 Credit

Prerequisites: B or Higher in 8<sup>th</sup> Grade Science; Read at 8<sup>th</sup> grade level

Pre-or Corequisites: Algebra I

Fees: \$18.00

Biology is the study of all living things. The course covers the chemical basis of life, cell biology, microorganisms, plant biology, invertebrates, vertebrates and evolution. During the course of the year students will learn laboratory skills and techniques involving use of the microscope, genetic techniques and dissection work. A good working knowledge of basic general science is necessary for biology and **good study habits** are essential for success throughout the year. Students *will be prepared for an introductory college biology course*.

### 2001 APPLIED BIOLOGY

Grades 9-12 Year Course / 1.00 Credit

Fees: \$30.00

Biology is the study of living things. Applied biology takes the approach of how living things affect man and how man affects living things. This course covers cells, heredity, evolution, diversity and interdependence of life. This course is designed for entry level introductory biology concepts for non-science concentration. All relevant Ohio Science standards will be covered.

### 2002 \*ANATOMY & PHYSIOLOGY / BIO150 \*THE HUMAN BODY CCP 4 cr.hrs. (Weighted Course)

Grades 11-12 Year Course / 1.00 Credit

Prerequisite: Biology and Chemistry or permission from the Instructor

Fees: \$20.00

Anatomy is the study of structures of the human body. Physiology is the study of the chemical and physical functions of the human body. A good working knowledge of biology and chemistry is essential for understanding the complex biochemistry of human physiology. This class is recommended for students wishing to enter a premedical program in college. Students are expected to meet high academic standards. A research paper is required.

### 2003 CHEMISTRY

Grades 10-12 Year Course / 1.00 Credit

Prerequisite: C or Higher in Biology and Algebra I Fees: \$15.00

Chemistry is the study of the properties of the material substances that we encounter in the world around us. The study of chemistry is essential for any student intending to enter college. Topics include the properties of matter, atoms, elements, compounds, formulas, structures, bonds, solutions, reactions, stoichiometry, and acids/bases. An important part of the course is discovery and application of concepts in laboratory investigations. A solid algebra foundation is required for investigations in this course.

### 2004 \*PHYSICS (Weighted Course)

Grades 11-12 Year Course / 1.00 Credit

Prerequisite: Algebra II with a B- or Higher

Co- or Prerequisite: Geometry with a B- or Higher Fees: \$15.00

Physics is the study of the principles that govern the natural and man-made events that occur in the world around us. The study of physics is appropriate for anyone with an inquiring mind and essential for those planning to enter college. A firm understanding of algebraic principles is essential.

Topics include force, motion, energy, heat, waves, light, electricity, and nuclear physics. Students will investigate the phenomenon being studied by conducting quantitative and qualitative experiments in a laboratory setting. In addition to acquiring an understanding of basic physical principles, students develop and apply the logical thinking process of the scientific method of inquiry. Hands-on projects will allow students to demonstrate learned principles.

### 2018 INTEGRATED ENVIRONMENTAL SCIENCE

Grades 10-12 Year Course / 1.00 Credit

Prerequisite: Applied Biology or Biology

Fees: \$10.00

Integrated Environmental Science provides students with the scientific principles, concepts, and methods required to understand the relationships within the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks of environmental problems, and to examine alternative solutions for resolving and/or preventing them.

### 2025 APPLIED CHEMISTRY

Grades 10-12 Year Course / 1.00 Credit

Prerequisite: App. Bio. or Biology; Algebra I

Fees: \$30.00

Applied Chemistry emphasizes the structure of matter, its properties and its relationship to real world applications. Students in this class will explore the structure of the atom at a more conceptual level, balancing equations, conversions, understanding of moles, properties of matter, changes in matter, solution chemistry, acids and bases, and basic organic chemistry. A solid algebra foundation is required for investigations in this course.

### 2027 \*ADVANCED BIOLOGY/ BIO101 \*PRINCIPLES OF BIOLOGY CCP 4 cr.hrs (Weighted Course)

Grades 10-12 Year Course / 1.00 Credit

Prerequisite: Biology & 3+ on biology EOC

Fees: \$20.00

A college level introduction to the principles and concepts of life, including topics on cell biology, genetics, diversity of life, and ecology. Laboratory work reinforces lecture. This is a second/advanced biology course. Students are required to know basic biology principles from Biology (Course 2000) and a self-motivated work ethic for laboratory work.

## SOCIAL STUDIES

### **2105 WORLD HISTORY**

Grade 9 Year Course / 1.00 Credit

The student will know and understand how people, places and events in the past and present affect their daily living. They will know and understand the geographical makeup and physical environment of the world and its effect on society.

### **2100 AMERICAN HISTORY**

Grade 10 Year Course / 1.00 Credit

The study of American History concentrated on the years since the conclusion of the Civil War. The course will cover many topics including (but not limited to) Western Civilization, Labor Movement, Immigration, Progressive Movement, WWI, WWII, The Great Depression, Civil Rights, Vietnam War, and Political and Social Issues of the 70's, 80's, and 90's. A variety of testing methods will be used to evaluate the students.

### **2101 CONTEMPORARY HISTORY**

Grades 11-12 Semester Course / .50 Credit

Contemporary History is a semester class that explores news, trends and issues that are facing our world today. The content of this class changes with the headlines. In this class we will analyze important current events and look at today's issues with regard to past events. We will also examine arguments over social, cultural and political differences of opinions.

### **2104 \*SPECIAL TOPICS AND RESEARCH IN AMERICAN HISTORY (Weighted Course)**

Grades 11-12 Year Course / 1.00 Credit

A weighted course that will investigate selected topics in American History including current events, local history and historical incidents as presented in motion pictures. Students will do research in these and in other areas of interest. They will become acquainted with sources and techniques used in historical research.

### **2132 MODERN AMERICAN HISTORY**

Grades 11-12 Semester Course / .50 Credit

If you are tired of never getting a chance to study recent American History in your required American History class, this is the course for you! This semester course will focus only on the last 60 years of American History. We will be discussing the Cold War and McCarthyism, the Korean War, the Presidency of J.F.K., Civil Rights, the Vietnam War, Nixon, and Watergate, the Gulf War, and much more.

### **2135 CIVICS**

Grade 11 Year Course / 1.00 Credit

The students will understand that principal governments are founded upon early history. Students will understand the processes of persuasion, compromise, consensus building and negotiation that contribute to the resolution of conflicts and differences by studying the Federalist and Anti Federalist papers. In addition, the students will evaluate different governmental structures, The Ohio Constitution, and obtain knowledge of financial literacy throughout this course. Grade is based on tests, quizzes, homework, and participation.

### **2136 PSYCHOLOGY**

Grades 11-12 Semester Course / .50 Credit

This course focuses on individual behavior and why an individual thinks, feels, and reacts to certain stimuli. Major emphasis will be placed on research methods, stages in childhood and adolescence, how the brain works, altered states of consciousness, psychological testing, and psychological disorders.

### **2137 SOCIOLOGY**

Grades 11-12 Semester Course / .50 Credit

This course illustrates how the groups, or social structures, that one belongs to have a profound influence on the way you think, feel, and act. Sociology looks at groups rather than individuals. Major themes include deviance and social control, inequalities of gender and age, family and marriage, and social issues surrounding modern sporting events.

## OTHER

### **2202 FUTURE TEACHERS OF AMERICA**

Grades 10-12 Semester Course / .25 Credit (Pass/Fail)

Prerequisite: Cum GPA 2.6+ & Have never failed a course

Students in FTA will be assigned to assist elementary or middle school teachers, school offices, and the libraries. Students will not choose the assignment but will be assigned based on need. If the student receives a failing grade at the end of the 1<sup>st</sup> or 3<sup>rd</sup> quarters, he/she will no longer be a student helper for the remainder of the semester and will receive AUD as your grade.

### **2300 WORK BASED LEARNING**

Grades 11-12 Year Course / 1 credit

Prerequisite: Student must be on track to graduate

Independent Course - students will be released from school for 1 period (period 9)

Work-based learning experiences are conducted at a work site during or after school. They are designed to provide authentic learning experiences for students that link academic, technical and professional skills. Business and school partners work together to evaluate and supervise the experiences, which must be documented with training or learning plans and evaluation forms. Students must conference with the school counselor prior to signing up for Work Based Learning.

### **2301 SENIOR WORK BASED LEARNING**

Grades 11-12 Year Course / 1 Credit

Prerequisite: Student must be on track to graduate

Independent Course - students will be released from school for up to 5 periods (periods 8-9)

Work-based learning experiences are conducted at a work site during or after school. They are designed to provide authentic learning experiences for students that link academic, technical and professional skills. Business and school partners work together to evaluate and supervise the experiences, which must be documented with training or learning plans and evaluation forms. Students must conference with the school counselor prior to signing up for Work Based Learning.

