

# OLMSTED FALLS HIGH SCHOOL

## PROGRAM OF STUDIES



**2024-2025**  
Olmsted Falls, Ohio

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The Olmsted Falls City School District hereby gives notice that it does not discriminate on the basis of race, color, national origin, sex, and disability in the educational programs and activities operated by the district.

## GENERAL INFORMATION

The Olmsted Falls Board of Education has prescribed the minimum credit requirements for a diploma:

Course	Credit(s)
English	4
Mathematics	4
Science	3
Social Studies	3
Health & Fitness Education	Health: .5 Physical Education: .5
Required Electives	Personal Finance: .5 Fine Arts (visual and/or Music): 1
Additional Electives	From any department 4.5
<b>Total Credits</b>	<b>21</b>

## ADDITIONAL GRADUATION REQUIREMENT NOTES

**Note:** Science credits must include 1 unit of physical sciences, 1 unit of life sciences, and 1 unit of advanced study in one or more of the following sciences; chemistry, physics, or other physical sciences; advanced biology or other life science; astronomy, physical geology or other earth or space science.

**Note:** All students must receive instruction in financial literacy during grades 9 through 12 and must complete two semesters of fine arts at any time in grades 9 through 12. Students following a career-technical pathway are exempted from the fine arts requirement.

**Note:** Students must schedule a minimum of five classes each semester, excluding classes less than .50 credits like Physical Education.

**Note:** Olmsted Falls High School courses taught at Olmsted Falls Middle School by a secondary certified teacher are considered high school credit.

**Note:** Students who complete a program at Polaris Career Center are exempt from meeting the fine arts requirement.

**Note:** Olmsted Falls High School offers a Physical Education Exemption. Students who complete two full seasons in interscholastic athletics, band (including drill team), or cheerleading are exempt from completing the physical education requirement. Students who choose to fulfill their physical education requirement by participating in interscholastic athletics, marching band, or cheerleading will not receive academic credit towards the credits required for graduation; however, they may elect to take a physical education course, or any other elective course, in order to receive academic credit. If a student fails to complete two full seasons of a sport, band, or cheerleading, they will be responsible for completing two semesters of physical education.

**RECOMMENDATION FOR COLLEGE PREPARATORY STUDENTS**

In order to be successful in college, high school students should take a balanced schedule with courses in all subject areas. College entrance requirements vary. Students should inquire with individual colleges for entrance requirements. However, most colleges recommend the following minimums:

Course	Credit(s)
Language Arts	4
Mathematics	4
Science	4
Social Studies	4
World Language	2
Fine Arts (Art, Music)	1

It is the student’s responsibility to see that requirements for graduation are met. The high school guidance department will make every effort to keep up-to-date records and to keep students and parents informed about the status of progress toward graduation requirements. Questions concerning credits and progress toward graduation should be directed to the appropriate counselor. Special circumstances may dictate the substitution of other courses.

**HIGH SCHOOL DIPLOMA REQUIREMENTS**

Students may earn either a regular diploma, diploma with honors, or an Advanced Placement Capstone Diploma. The criteria for each are outlined below. Diplomas will be awarded under the following guidelines:

**Regular Diploma:**

- Successful completion of credit and other requirements set forth by the [Ohio Department of Education](#), [the Ohio Revised Code](#), and the [Olmsted Falls Board of Education](#).
- [Specific graduation pathway requirements as set forth by The Ohio Department of Education.](#)

*Note: The privilege to participate in the commencement ceremony is extended only to those students who have successfully met all requirements mandated for graduation.*

**Ohio Department of Education Diploma with Honors:**

For guidance on the specifics with each Honors Diploma please visit:

<http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements/Honors-Diplomas>

Please click on the following links for additional information.

[ACADEMIC HONOR DIPLOMA CRITERIA](#)

[CAREER-TECH HONOR DIPLOMA CRITERIA](#)

[AP CAPSTONE DIPLOMA CRITERIA](#)

## GRADUATION REQUIREMENTS – FOR THE CLASSES OF 2023 AND BEYOND

In addition to the course credit requirements, students are required to meet the following state graduation criteria.

### **DEMONSTRATING COMPETENCY**

**Option 1:** Students must earn a “competency” score on the English II and Algebra I end-of-course tests. In lieu of attaining passing scores on the state tests, students can utilize alternative ways to demonstrate competency. Prior to being eligible to demonstrate competency in alternative ways, students first must retake the test and receive remedial supports. The three alternative ways to demonstrate competency for the subject area not passed are as follows:

**Option 2: CAREER EXPERIENCE AND TECHNICAL SKILL** - Complete two demonstrations to show competency, at least one of which must be foundational.

#### **FOUNDATIONAL:**

- a. Earn a score of proficient or higher on three or more WebXams in a single career pathway;
- b. Earn an approved 12 point industry-recognized credential;
- c. Complete a pre-apprenticeship in the student’s chosen career field or show evidence of acceptance into an apprenticeship program (for students ages 18 and older) after high school.
- d. Obtain a State issued license in a vocation that requires an examination

#### **SUPPORTING:**

- a. Complete a 250-hour work-based learning experience with evidence of positive evaluations;
- b. Earn the workforce readiness score on WorkKeys; or
- c. Earn the Ohio Means Jobs Readiness Seal.

**Option 3: COLLEGE CREDIT PLUS** - Earn college credit in a non-remedial math or English course (for the subject area not passed) to demonstrate competency.

**Option 4: MILITARY READINESS** - Competency can be achieved by meeting the requirements to enlist in the military, as demonstrated by a contract with the military to enlist upon graduation.

**Option 5:** To complete this alternative demonstration of competency, students must obtain a remediation-free score in the math or English subject areas on the ACT or SAT to demonstrate competency. To demonstrate competency in English II, a student must be remediation-free in the subjects of English and reading on the ACT or SAT.

**NOTE:** For any students receiving special education and related services under [Ohio Revised Code Chapter 3323](#), the individualized education program specifies the manner in which the student will participate in the assessments for the purpose of demonstrating competency. More information is forthcoming from the Ohio Department of Education.

### **DEMONSTRATING READINESS**

In addition to fulfilling curriculum requirements and earning the competency requirements listed above, students also must show they are prepared for college or careers. Ohio law created 12 seals for students to demonstrate academic, technical and professional readiness for careers, college, the military or self-sustaining professions. Each seal allows students to demonstrate knowledge and skills essential for future success. Students will demonstrate readiness by earning at least two diploma seals, one of which must be state-defined. Seals help students develop an array of critical skills that are valuable to them as they transition to the next steps after high school.

### **State-Defined Diploma Seals**

*Please click on any of the Diploma Seal icons for a link to additional information with more details about that seal.*

To earn the OhioMeansJobs-Readiness Seal, motivated high school students must demonstrate specific professional skills required for success in the workplace. Students must work with at least three experienced and trusted mentors who validate the demonstration of these skills in school, work or the community.

Meet the requirements and criteria, including proficiency requirements on assessments in a world language and English.

The Industry-Recognized Credential Seal is a state-defined seal. To earn the Industry-Recognized Credential Seal, students must earn an Ohio Department of Education approved industry-recognized credential or group of credentials aligned to a career that is considered in-demand in Ohio. Students must obtain a state issued license for a practice in a vocation that requires an examination.

Earn remediation-free scores on the ACT or SAT.

The Military Enlistment Seal is a state-defined seal. A student will earn the Military Enlistment Seal when they provide evidence of enlistment in a branch of the United States Armed Forces. Students also may receive this seal if they participate in a Junior Reserve Officer Training Corps (JROTC) program for at least two school years.

To earn Ohio's Citizenship Seal, students must satisfy one of the listed American History options and one of the listed American Government options:

#### **American History Options**

1. Earn a final course grade that is equivalent to a "B" or higher in an American History course
2. Earn a score of proficient or higher on Ohio's State Test in American History
3. Earn a score equivalent to proficient on an appropriate Advanced Placement or International Baccalaureate test in US History
4. Earn a "B" or higher in appropriate American History College Credit Plus course.

#### **American Government options:**

1. Earn a final course grade that is equivalent to a "B" or higher in an American Government course
2. Earn a score of proficient or higher on Ohio's State Test in American Government
3. Earn a score equivalent to proficient on an appropriate Advanced Placement or International Baccalaureate test in US Government
4. Earn a "B" or higher in appropriate American Government College Credit Plus course

To earn Ohio's Science Seal, students must satisfy at least one of the following:

1. Earn a final course grade that is equivalent to a "B" or higher in an Advanced Science course;
2. Earn a score of proficient on Ohio's State Test in Biology;
3. Earn a score equivalent to proficient on an appropriate Advanced Placement or International Baccalaureate science test; or
4. Earn a "B" or higher in a College Credit Plus science course.

Earn one of five Honors Diplomas outlined below:

1. Academic Honors Diploma
2. Career-Tech Honors Diploma
3. STEM Honors Diploma
4. Arts Honors Diploma
5. Social Studies and Civic Engagement Honors Diploma

A student can:

1. Earn a score that is at least equivalent to proficient on an appropriate Advanced Placement exam; or
2. 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
3. Complete a course offered through the district or school that meets guidelines developed by the Department of Education. (A district or school is not required to offer a course that meets those guidelines.)

## Locally-Defined Diploma Seals

A student must complete 20 hours of pre-approved community service. Of course, a student can complete more hours but the minimum is 20 hours by senior year. A student must complete a community service project or projects through a group or organization which promotes community service. Some examples would be an Eagle Scout project, Girl Scout Gold project, a community service project where the student was the organizer or participant through a school or community group (Key Club, Student Council, religious organization, etc.). This project must be pre-approved and verified by an adult leader of the community service group. Students are responsible for submitting the appropriate paperwork. [\\*Community Service Seal form\\*](#)

A student can earn the seal through one of the following ways:

1. A student must successfully complete at least two full seasons of a school-sponsored varsity, junior varsity or freshman sport;
2. A student must participate in at least two full years of activities and/or meetings of board-approved clubs or organizations. Verification will be required by the advisor of the club or organization.
3. A student may use a combination of one full season of a school-sponsored varsity, junior varsity or freshman sport and one full year of activities and/or meetings of board-approved clubs or organizations. Verification will be required by the advisor of the club or organization.

In order for a student to earn a Fine and Performing Arts Seal, one of the following criteria must be met:

1. A student must earn a "B" or higher in at least two credits of a fine arts course
2. A student must earn a "B" or higher in at least one credit of a fine arts course and participate in at least one school performance (in a non-graded extracurricular fine & performing arts activity, i.e. participation in the school musical). The school performance will need to be verified by the teacher or advisor.

## **SCHEDULE CHANGES**

Students and parents/guardians are urged to plan carefully as schedules are finalized at the end of the school year and will not be changed after the last day of school. The deadline to make course request adjustments is the last day of school. Students will address the issue(s) with his or her counselor, and the final approval for a schedule change lies with the head principal. Convenience changes will not be made.

To drop a course a student must:

1. Schedule an appointment with their counselor
2. The counselor will work with the student, parent/guardian, teacher, and administration

**Note:** if transferring from an Honors/AP course to an academic level course, the student will receive a non-weighted grade. Parents may contact the guidance department to arrange an individual conference to discuss scheduling and course selection.

**Note:** At the discretion of the administration, courses may be discontinued due to insufficient enrollment.

## **CLASS AUDIT**

Students cannot audit classes at Olmsted Falls High School.

## **ATHLETIC ELIGIBILITY**

Eligibility policies for athletics are mandated by the Ohio High School Athletic Association. Eligibility for each grading period is determined by grades received the preceding grading period. Semester grades, yearly grades, and summer school grades have no effect on eligibility. To be eligible, a high school student must be currently enrolled in an Ohio High School Athletic Association member school and have received passing grades in a minimum of five one-credit courses or the equivalent, in the immediately preceding grading period. In addition, the student must maintain a GPA of 1.00 as established by our Board of Education.

## **NCAA CLEARINGHOUSE**

Any Olmsted Falls High School student who intends to play NCAA Division I or II athletics and/or compete for an athletic scholarship must register with the NCAA Clearinghouse. Students should register in the fall of their junior year. NCAA Clearinghouse registration should be completed online at [www.eligibilitycenter.org](http://www.eligibilitycenter.org). Please visit the website for specific course requirements.

## **GRADING AND REPORT CARDS**

Students have access to quarterly (9 week) report cards with grades for each course on their schedule. Credit is issued and cumulative grade point average is based upon semester (18 week) grades. Semester grades are based upon the two quarter grades and the semester exam if the course requires one.



## CUMULATIVE GPA

The cumulative GPA is calculated based on semester grades. The computation for cumulative GPA is based upon the total quality points obtained divided by the total attempted credits. See table below:

GRADE	ACADEMIC/CCP**	HONORS/CCP**	ADVANCED PLACEMENT/CCP**
A	4.0	4.5	5.0
B	3.0	3.5	4.0
C	2.0	2.5	3.0
D	1.0	1.0	1.0
F	0	0	0

\*\*CCP Courses are weighted only if there is an Honors or AP course in the same subject area.(ie AP Calculus and CCP College Algebra). For illustration purposes, if a student, after six semesters of work, has obtained:

	CREDITS	QUALITY POINTS
10 credits of regular A, then	10 X 4.0	40 quality points
5 credits of regular B, then	5 X 3.0	15 quality points
1 credit of regular C, then	1 X 2.0	2 quality points
1 credit of AP-B, then	1 X 4.0	4 quality points
2 credits of Honors A, then	*2X 4.5	*9 quality points
<b>TOTAL</b>	<b>19 Credits</b>	<b>70 Quality Points</b>

**70 divided by 19 = 3.6842 cumulative grade point average**

## HONOR ROLLS

Students may be named to one of three honor rolls for each semester; High Honors, Honors, and Merit Roll.

### High Honors

- Grade Point Average (GPA) of 3.75 or higher, semester grade C or better, and no incomplete grades.

### Honors:

- Grade Point Average (GPA) of at least 3.50 but less than 3.75, semester grade C or better and no incomplete grades

### Merit Roll:

- Grade Point Average (GPA) of at least 3.00 but less than 3.50, semester grade C or better and no incomplete grades.

## Olmsted Falls High School Recognizes Academic Excellence As Follows:

### **Summa Cum Laude**

Any student having earned an accumulative GPA of 4.0 or higher by the conclusion of the 7th semester will be distinguished as a graduate (with highest honors).

### **Magna Cum Laude**

Any student having earned an accumulative GPA of 3.75 to 3.999 by the conclusion of the 7th semester will be distinguished as a graduate (with high honors).

### **Cum Laude**

Any student having earned an accumulative GPA of 3.5 to 3.749 by the conclusion of the 7th semester will be distinguished as a graduate (with honors).

## Course Credit From Other Schools

Transfer of Credits from Other Schools: Students transferring to Olmsted Falls High School from accredited schools during grades 9-12 will have courses/credits recognized on an Olmsted Falls transcript in an appropriate manner. Grading systems and course offerings vary from school to school; the following guidelines will attempt to ensure fair placement for all students relative to graduation.

1. Credits will be accepted at face value provided the system is accredited and consistent with the standards set forth by the State of Ohio. (120 hours= 1.00 credit, 60 hours = .50 credit)
2. All courses, except religion, will be accepted for credit provided the sending school granted credit as evidenced by an official school transcript.
3. Grades will be issued according to the grading scale used at the sending school. An exception is relevant for weighted grades, which will only be accepted for courses in which Olmsted Falls offers an honors or AP course. These grades will be assigned the appropriate quality points.
4. Grades for honors/AP courses from a sending school that does not have weighted grades may be weighted for GPA purposes at Olmsted Falls High School if deemed appropriate by the School Principal upon transfer.

## Advanced Placement (AP) & College Credit Plus (CCP)

### **Advanced Placement (AP)**

AP gives students the chance to take college-level work while in high school to possibly earn college credit and placement. All AP courses receive a weighted grade (A= 5.0). Students may take the Advanced Placement examinations without taking the course, however, this situation is rare. See your school counselor for additional information.

AP examinations are administered at Olmsted Falls High School each year in May. Registration for the examinations takes place in the fall, at which time the exam fee will be added to school fees. A fee reduction is available when a verifiable need exists.

AP Exams are scored on a scale of 1 to 5. Many U.S. colleges grant credit and/or advanced placement for scores of 3 and above.

### **College Credit Plus (CCP)**

College Credit Plus (CCP) is the State of Ohio's dual enrollment program. Eligible students are able to take college-level coursework at any participating college or university and earn college credit. Grades for CCP courses may be weighted only if OFHS offers an equivalent AP or honors course in the broad subject area.

All interested students should follow the state-mandated process for eligibility and enrollment. Please view the College Credit Plus Presentation below through the Counselors' Corner Link.

### [Counselors' Corner](#)

All copies of the necessary paperwork are found on the Counselors' Corner website and the High School Guidance Office.

### [Counselor's Corner - CCP](#)

A student must inform the Olmsted Falls High School Guidance Office by the state-mandated deadline he/she plans to participate in the CCP program by turning in the "Intent to Participate" form each year. Please see your counselor or the Counselors' Corner website for more information

Note: The CCP courses offered in the high school each school year are subject to change due to funding and staffing needs.

### **School Fees**

Classes that have instructional fees are listed within the course description and may be subject to slight change. AP classes have a separate fee due to the AP test students will take at the end of the course. Families should also be aware that there is an activity fee, technology fee, and a digital resources fee assessed each year for every student. Polaris Career Center fees are not listed in this program, but they can be accessed through the Polaris website. Fees are also determined by need, and those families that qualify may have a different fee schedule.

## Four-Year High School Planning Sheet

\*Below is an example of a student's four-year timeline.

FRESHMAN YEAR		SOPHOMORE YEAR		JUNIOR YEAR		SENIOR YEAR	
Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2
ELA 9	ELA 9	ELA 10	ELA 10	ELA 11	ELA 11	ELA 12	ELA 12
Algebra	Algebra	Geometry	Geometry	See Math Flow Chart	See Math Flow Chart	See Math Flow Chart	See Math Flow Chart
W. History	W. History	U.S. History	U.S. History	Gov't/Law	SS Elective	SS Elective	SS Elective
Biology	Biology	Chem or Phys Science	Chem or Phys Science	Chem or Physics	Chem or Physics	Science Elective	Science Elective
P.E.	Health	P.E.	Personal Finance	Elective	Elective	Elective	Elective
Fine Art	Fine Art	Elective	Elective	Elective	Elective	Elective	Elective

\*Below is an example of a Polaris student's four-year timeline.

FRESHMAN YEAR		SOPHOMORE YEAR		JUNIOR YEAR		SENIOR YEAR	
Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2
ELA 9	ELA 9	ELA 10	ELA 10	Polaris	Polaris	ELA 12	ELA 12
Algebra	Algebra	Geometry	Geometry	Polaris	Polaris	See Math Flow Chart	See Math Flow Chart
W. History	W. History	U.S. History	U.S. History	Polaris	Polaris	Science	Science
Biology	Biology	Chem or Phys Science	Chem or Phys Science	See Math Flow Chart	See Math Flow Chart	Polaris	Polaris
P.E.	Health	P.E.	Personal Finance	ELA 11	ELA 11	Polaris	Polaris
Fine Art	Fine Art	Elective	Elective	Govt.	S.S. Elective	Polaris	Polaris

## The Olmsted Falls Program of Studies and Career Pathways Planning Guide

The Olmsted Falls Board of Education and professional teaching staff recognize the need for students and parents to plan a high school program that enables each student to fulfill the Ohio State Graduation Requirements in a manner that provides for individual interests, needs, and career goals.

It is also recognized that every student is on a pathway to a career – whether in the near or distant future. But how does a student get there, and will he or she be properly prepared? Has the student selected an educational career plan suited to his or her interests and abilities? Will the student be able to enter a chosen career directly after high school, or will he or she need further training and/or higher education? These are all important questions for students to consider before entering the highly competitive and technical workforce of the 21st century.

Utilizing data from various resources including the historical data from our own students who have graduated from Olmsted Falls High School over the last seven years we have identified the following Career Pathways:

- Health and Human Services
- Business, Management, and Marketing
- STEAM (Science, Technology, Engineering, Arts and Mathematics)

As you consider a future career pathway here is an overview of each of the Career Pathways listed above:



**Health and Human Services:** Health Sciences include careers related to the promotion of health as well as the treatment of injuries, conditions, and disease. These may include medicine, dentistry, nursing, therapy and rehabilitation, nutrition, fitness and hygiene, public health, and veterinary science. Specific examples include physicians, nurses, pharmacists, health facility administrators, dental assistants, veterinarians, physical therapists, and medical technicians. Human Services include careers in childcare, civil service, education, hospitality, and social services.

These may include law and legal studies, law enforcement, public administration, child and family services, and social services. Specific examples include postal workers, police officers, lawyers, teachers, counselors, school administrators, firefighters, clergy and social workers.



**Business, Management, and Marketing:** Careers related to all aspects of business including accounting, business administration, finance, and marketing. These may include entrepreneurship, sales, marketing, hospitality and tourism, finance, accounting, office administration, personnel, economics, and management. Specific examples include accountants, business managers, salespersons, buyers, secretaries, and stock analysts.



**STEAM (Science, Technology, Engineering, Arts, Mathematics)**

**Science, Technology, and Engineering:** Careers related to technologies necessary to design, develop, install, or maintain physical systems. These may include occupations in designing, engineering and science, service technicians, manufacturing technology, transportation, and construction. Specific examples include architects, airplane pilots, engineers, carpenters, microcomputer specialists, equipment operators, technicians, and mechanics.



**Arts:** Careers related to the humanities and to the performing, visual, literary, and media arts. These may include creative or technical writing, illustrating, graphic designing, publishing, theatre arts, journalism, languages, radio and television broadcasting, photography, advertising, and public relations. Specific examples include artists, journalists, interior designers, musicians, photographers, and theatre technicians.



**Mathematics:** Careers related to mathematics deal with critical thinking and problem solving, adaptability and agility, accessing and analyzing data/information. These may include statisticians, research scientists, mathematicians, engineers, actuaries, and financial analysts.

## ARTS PATHWAY(ARTS/AUDIO/VIDEO/TECHNOLOGY/COMMUNICATIONS)

Grade	Language Arts	Math	Science	Social Studies	Recommended Art Electives/ Career Tech Choices	Other Electives
9	Lang Arts 9 OR Lang Arts Honors 9	Algebra OR Geometry	Biology OR Biology Honors OR CCP Biology I/II	World History OR World History Honors	Art Foundations (9-12) Ceramic (10-12) Drawing (10-12) Mixed Media Art (10-12)	World Language
10	Lang Arts 10 OR Lang Arts Honors 10	Geometry OR Geometry Honors OR Algebra II OR Algebra II Honors	Physical Science OR Chemistry OR Chemistry Honors OR CCP Biology I/II	United States History OR CCP/AP United States History	Painting (10-12) Sculpture (10-12) Advanced Art (11-12) AP Art (12) Drawing I CCP Digital Marketing and Web Design (9-12) Publications (9-12) Bands (9-12) Choirs (9-12) Music Theory Honors (10-12)	Required for Graduation: Health, Physical Education, & Personal Finance
11	Lang Arts 11 OR AP Language and Composition OR CCP College Composition I/II	Algebra II OR Algebra II Honors OR Statistics OR AP Statistics OR Pre-Calculus OR CCP College Algebra/ Trigonometry	Chemistry OR Chemistry Honors OR AP Chemistry OR Physics OR Physics Honors	Government & Law AND Other Social Studies course	<a href="#">Baking &amp; Pastry Arts</a> (Polaris Career Center 11-12)  <a href="#">Culinary Arts &amp; Restaurant Management</a> (Polaris Career Center 11-12)	
12	Language Arts 12 OR AP Literature and Composition OR CCP College Composition I/II	Pre-Calculus OR AP Calculus AB/BC OR Statistics OR AP Statistics	Physics OR Physics Honors OR AP Physics OR Other Science Course	Other Social Studies Courses	<a href="#">Cosmetology</a> (Polaris Career Center 11-12)	

BUSINESS PATHWAY

Grade	Language Arts	Math	Science	Social Studies	Recommended Art Electives/ Career Tech Choices	Other Electives
9	Lang Arts 9 OR Lang Arts Honors 9	Algebra OR Geometry	Biology OR Biology Honors OR CCP Biology I/II	World History OR World History Honors	Digital Marketing and Management (9-12)	World Language
10	Lang Arts 10 OR Lang Arts Honors 10	Geometry OR Geometry Honors OR Algebra II OR Algebra II Honors	Physical Science OR Chemistry OR Chemistry Honors OR CCP Biology I/II	United States History OR CCP/AP United States History	Principles of Accounting and Finance (9-12)	Required for Graduation: Health, Physical Education, & Personal Finance
11	Lang Arts 11 OR AP Language and Composition OR CCP College Composition I/II	Algebra II OR Algebra II Honors OR Statistics OR AP Statistics OR Pre-Calculus OR CCP College Algebra/ Trigonometry	Chemistry OR Chemistry Honors OR AP Chemistry OR Physics OR Urban Agriculture & Sustainability	Government & Law/AP Gov AND Economics OR Psychology OR AP Psychology OR Current Issues	Marketing (10-12)  Business Principles (10-12)  Strategic Entrepreneurship (11-12)  Business Capstone (11-12)	
12	Language Arts 12 OR AP Literature and Composition OR CCP College Composition I/II	Pre-Calculus OR AP Calculus AB/BC OR Statistics OR AP Statistics	Physics OR AP Physics OR Urban Agriculture & Sustainability OR Other Science Course	Economics OR Psychology OR AP Psychology OR Current Issues	<a href="#">Business Professional &amp; Office Technology</a> (Polaris Career Center 11-12)	

## EDUCATION PATHWAY

Grade	Language Arts	Math	Science	Social Studies	Recommended Art Electives/ Career Tech Choices	Other Electives
9	Lang Arts 9 OR Lang Arts Honors 9	Algebra OR Geometry	Biology OR Biology Honors OR CCP Biology I/II	World History OR World History Honors	Parenting/Child Development (10-12)  Personal Development (10-12)	World Language
10	Lang Arts 10 OR Lang Arts Honors 10	Geometry OR Geometry Honors OR Algebra II OR Algebra II Honors	Physical Science OR Chemistry OR Chemistry Honors OR CCP Biology I/II	United States History OR CCP/AP United States History		Required for Graduation: Health, Physical Education, & Personal Finance
11	Lang Arts 11 OR AP Language and Composition OR CCP College Composition I/II	Algebra II OR Algebra II Honors OR Statistics OR AP Statistics OR Other Math Course	Environmental Science OR Chemistry OR Chemistry Honors OR AP Chemistry OR Physics	Government & Law AND Psychology OR AP Psychology OR Sociology		
12	Language Arts 12 OR AP Literature and Composition OR CCP College Composition I/II	Statistics OR AP Statistics OR Other Math Course	Environmental Science OR Physics OR AP Physics OR Other Science Course	Psychology OR AP Psychology OR Sociology OR Other Social Studies Course		



HEALTH SCIENCE PATHWAY

Grade	Language Arts	Math	Science	Social Studies	Recommended Art Electives/ Career Tech Choices	Other Electives
9	Lang Arts 9 OR Lang Arts Honors 9	Algebra OR Geometry	Biology OR Biology Honors OR CCP Biology I/II	World History OR World History Honors	Lifetime Wellness & Physical Fitness I (9-12) Lifetime Wellness & Physical Fitness II (10-12) Personal Development (10-12) Parenting & Child Development (10-12) Spinning (9-12) Sports Performance & Weight Training (9-12) Yoga (9-12) Exercise Science CCP (9-12)	World Language
10	Lang Arts 10 OR Lang Arts Honors 10	Geometry OR Geometry Honors OR Algebra II OR Algebra II Honors	Physical Science OR Chemistry OR Chemistry Honors OR CCP Biology I/II	United States History OR CCP/AP United States History	4 Course Pathway: Principles of Biomedical Science (9-12) Human Body Systems (9-12) Medical Interventions (10-12) Biomedical Innovation (11-12)	Required for Graduation: Health, Physical Education, & Personal Finance
11	Lang Arts 11 OR AP Language and Composition OR CCP College Composition I/II	Algebra II OR Algebra II Honors OR Statistics OR AP Statistics OR Pre-Calculus OR CCP College Algebra/Trigonometry	Chemistry OR Chemistry Honors OR AP Chemistry OR Physics	Government & Law/AP Gov AND Economics OR Psychology OR AP Psychology OR Contemporary Issues	Dental Assisting (Polaris Career Center 11-12) <a href="#">Medical Profession</a> (Polaris Career Center 11-12) <a href="#">Pre-Nursing</a> Polaris Career Center 11-12) <a href="#">Exercise Science &amp; Rehab Therapy</a> (Polaris Career Center 11-12) <a href="#">Emergency Medical Technician/Fire Training</a> (Polaris Career Center 11-12) <a href="#">Pre-Veterinary Science</a> (Polaris Career Center 11-12)	
12	Language Arts 12 OR AP Literature and Composition OR CCP College Composition I/II	Pre-Calculus OR AP Calculus AB/BC OR Statistics OR AP Statistics	Physics OR AP Physics OR Other Science Course	Economics OR Psychology OR AP Psychology OR Contemporary Issues		

## HUMAN SERVICE PATHWAY

Grade	Language Arts	Math	Science	Social Studies	Recommended Art Electives/ Career Tech Choices	Other Electives
9	Lang Arts 9 OR Lang Arts Honors 9	Algebra OR Geometry	Biology OR Biology Honors OR CCP Biology I/II	World History OR World History Honors	Parenting & Child Development (10-12)  Personal Development (10-12)	World Language
10	Lang Arts 10 OR Lang Arts Honors 10	Geometry OR Geometry Honors OR Algebra II OR Algebra II Honors	Physical Science OR Chemistry OR Chemistry Honors OR CCP Biology I/II	United States History OR CCP/AP United States History	Lifetime Wellness & Physical Fitness I (9-12) Lifetime Wellness & Physical Fitness II (10-12)	Required for Graduation: Health, Physical Education, & Personal Finance
11	Lang Arts 11 OR AP Language and Composition OR CCP College Composition I/II	Algebra II OR Algebra II Honors OR Statistics OR AP Statistics OR Other Math Course	Chemistry OR Chemistry Honors OR AP Chemistry OR Physics OR AP Physics	Government & Law OR Psychology OR AP Psychology OR Sociology	<a href="#">Criminal Justice</a> (Polaris Career Center 11-12)  4 Course Pathway: Principles of Biomedical Science (9-12)	
12	Language Arts 12 OR AP Literature and Composition OR CCP College Composition I/II	Statistics OR AP Statistics OR Other Math Course	Physics OR AP Physics OR Other Science Course	Psychology OR AP Psychology OR Sociology OR Other Social Studies Course	Human Body Systems (9-12) Medical Interventions (10-12) Biomedical Innovation (11-12)	

INDUSTRIAL PROFESSIONS PATHWAY

Grade	Language Arts	Math	Science	Social Studies	Recommended Art Electives/ Career Tech Choices	Other Electives
9	Lang Arts 9 OR Lang Arts Honors 9	Algebra OR Geometry	Biology OR Biology Honors OR CCP Biology I/II	World History OR World History Honors		
10	Lang Arts 10 OR Lang Arts Honors 10	Geometry OR Geometry Honors OR Algebra II OR Algebra II Honors	Physical Science OR Chemistry OR Chemistry Honors OR CCP Biology I/II	United States History OR CCP/AP United States History	<a href="#">Automotive Technology</a> (Polaris Career Center 11-12)	
11	Lang Arts 11 OR AP Language and Composition OR CCP College Composition I/II	Algebra II OR Algebra II Honors OR Statistics OR AP Statistics OR Other math course	Chemistry OR Chemistry Honors OR AP Chemistry OR Physics OR Urban Agriculture & Sustainability OR Other Science course	Government & Law AND Psychology OR AP Psychology OR Sociology	<a href="#">Construction Trades</a> (Polaris Career Center 11-12)	Required for Graduation: Health, Physical Education, & Personal Finance
					<a href="#">Heating, Ventilating, Air Conditioning &amp; Refrigeration</a> (Polaris Career Center 11-12)	
					<a href="#">Precision CNC Machining</a> (Polaris Career Center 11-12)	
					<a href="#">Welding Technology</a> (Polaris Career Center 11-12)	
12	Language Arts 12 OR AP Literature and Composition OR CCP College Composition I/II	Statistics OR AP Statistics OR Other Math Course	Physics OR AP Physics OR Urban Agriculture & Sustainability OR Other Science Course	Psychology OR AP Psychology OR Sociology OR Other Social Studies Course		

## INFORMATION AND TECHNOLOGY PATHWAY

Grade	Language Arts	Math	Science	Social Studies	Recommended Art Electives/ Career Tech Choices	Other Electives
9	Lang Arts 9 OR Lang Arts Honors 9	Algebra OR Geometry	Biology OR Biology Honors OR CCP Biology I/II	World History OR World History Honors	Digital Marketing and Management (9-12)  AP Computer Science Principles (9-12)  AP Computer Science A (10-12)  Mixed Media Art (11-12)  <a href="#">Computer Networking Academy</a> (Polaris Career Center 11-12)	World Language
10	Lang Arts 10 OR Lang Arts Honors 10	Geometry OR Geometry Honors OR Algebra II OR Algebra II Honors	Physical Science OR Chemistry OR Chemistry Honors OR CCP Biology I/II	United States History OR CCP/AP United States History		Required for Graduation: Health, Physical Education, & Personal Finance
11	Lang Arts 11 OR AP Language and Composition OR CCP College Composition I/II	Algebra II OR Algebra II Honors OR Statistics OR AP Statistics OR Pre-Calculus OR CCP College Algebra/ Trigonometry	Chemistry OR Chemistry Honors OR AP Chemistry OR Physics OR AP Physics	Government & Law AND Economics OR Psychology OR AP Psychology		
12	Language Arts 12 OR AP Literature and Composition OR CCP College Composition I/II	Pre-Calculus OR AP Calculus AB/BC OR Statistics OR AP Statistics	Physics OR AP Physics OR Other Science Course	Economics OR Psychology OR AP Psychology OR Other Social Studies Courses		

MARKETING PATHWAY

Grade	Language Arts	Math	Science	Social Studies	Recommended Art Electives/ Career Tech Choices	Other Electives
9	Lang Arts 9 OR Lang Arts Honors 9	Algebra OR Geometry	Biology OR Biology Honors OR CCP Biology I/II	World History OR World History Honors		World Language
10	Lang Arts 10 OR Lang Arts Honors 10	Geometry OR Geometry Honors OR Algebra II OR Algebra II Honors	Physical Science OR Chemistry OR Chemistry Honors OR CCP Biology I/II	United States History OR CCP/AP United States History	Digital Marketing and Management (9-12)  Marketing Principles (10-12)	
11	Lang Arts 11 OR AP Language and Composition OR CCP College Composition I/II	Algebra II OR Algebra II Honors OR Statistics OR AP Statistics OR Pre-Calculus OR CCP College Algebra/Trigonometry	Environmental Science OR Chemistry OR Chemistry Honors OR AP Chemistry OR Physics OR AP Physics OR Urban Agriculture & Sustainability	Government & Law AND Economics OR Psychology OR AP Psychology	Mixed Media Art (10-12)  Business Principles and Management (10-12)  Strategic Entrepreneurship (11-12)  Business Capstone (11-12)	Required for Graduation: Health, Physical Education, & Personal Finance
12	Language Arts 12 OR AP Literature and Composition OR CCP College Composition I/II	Pre-Calculus OR AP Calculus AB/BC OR Statistics OR AP Statistics	Environmental Science OR Physics OR AP Physics OR Urban Agriculture & Sustainability OR Other Science Course	Applied Economics OR Psychology OR AP Psychology		

## STEM PATHWAY(SCIENCE/TECHNOLOGY/ENGINEERING/MATH)

Grade	Language Arts	Math	Science	Social Studies	Recommended Art Electives/ Career Tech Choices	Other Electives
9	Lang Arts 9 OR Lang Arts Honors 9	Algebra OR Geometry OR Honors Geometry OR Alg. II Honors	Biology OR Biology Honors OR CCP Biology I/II	World History OR World History Honors	Introduction to Engineering Design (9-12)  Principles of Engineering (9-12)	World Language
10	Lang Arts 10 OR Lang Arts Honors 10	Geometry OR Geometry Honors OR Algebra II OR Algebra II Honors OR Pre-Calculus	Physical Science OR Chemistry OR Chemistry Honors OR CCP Biology I/II	United States History OR CCP/AP United States History	Civil Engineering and Architecture (10, 11, 12)  Engineering Design and Development (11-12)  <a href="#">Aeronautics</a> (Polaris Career Center 11-12)  <a href="#">Computer Networking Academy</a> (Polaris Career Center 11-12)  <a href="#">Precision CNC Machining</a> (Polaris Career Center 11-12)  4 Course Pathway: Principles of Biomedical Science (9-12) Human Body Systems (9-12) Medical Interventions (10-12) Biomedical Innovation (11-12)	Required for Graduation: Health, Physical Education, & Personal Finance
11	Lang Arts 11 OR AP Language and Composition OR CCP College Composition I/II	Algebra II OR Algebra II Honors OR Statistics OR Statistics (CCP) OR Pre-Calculus OR CCP College Algebra/ Trigonometry OR AP Calculus AB	Chemistry OR Chemistry Honors OR AP Chemistry OR Physics OR AP Physics	Government & Law AND Economics OR Psychology OR AP Psychology		
12	Language Arts 12 OR AP Literature and Composition OR CCP College Composition I/II	Pre-Calculus OR AP Calculus AB/BC OR Statistics OR AP Statistics	Physics OR AP Physics OR Other Science Course	Economics OR Psychology OR AP Psychology		

## Courses by Career Pathway

### Health and Human Services

Anatomy and Physiology Honors	Lifetime Wellness & Physical Fitness
Biology and CCP Biology	Parenting and Child Development
Biomedical Innovations	Psychology and AP Psychology
Health	Sociology
Family and Personal Development	Sports Performance and Weight Training
Intro to Exercise Science CCP	AP Seminar
Human Body Systems	AP Research
Medical Intervention	

### Business, Management, and Marketing

Accounting	Microeconomics / Macroeconomics
Business Principles and Management	Personal Finance / Personal Finance CCP
Strategic Entrepreneurship	Statistics
Intro to Exercise Science CCP	Urban Agriculture & Sustainability
Marketing Principles	World Languages

**STEAM ( Science, Technology, Engineering, Arts, and Math)**

<b><i>Science, Technology, and Engineering</i></b>	Drawing / Drawing CCP
AP Computer Science Principles	Jazz Band
Chemistry and AP Chemistry	Music Theory Honors
Digital Marketing and Management	Painting
Engineering Design and Development	AP Art
Environmental Science	Publications
Geology	Sculpture
Introduction to Engineering Design	Symphonic Band and Winds
Physics, Physics Honors and AP Physics	Bel Canto Choir
Pre-Veterinary Science	Vocal Jazz (GE) Ensemble
Urban Agriculture & Sustainability	Wind Ensemble and Symphony
<b><i>Arts</i></b>	World Languages
Advanced Art	Mixed Media Art
Art Foundations	<b><i>Mathematics</i></b>
Ceramics	College Algebra/Trigonometry CCP
Chorale	Quantitative Reasoning
Chamber Choir	Statistics / AP Statistics



## COURSE DESCRIPTIONS

### ART

	9th Grade	10th grade	11th grade	12th grade
Students starting Art Foundations in the 9th Grade:	Art Foundations	*Drawing, Drawing I CCP, Painting, Sculpture, Ceramics, or Mixed Media Art	Advanced Art or *Drawing, Painting, Sculpture, Ceramics, Drawing I CCP, or Mixed Media Art	AP Art or Advanced Art or Drawing, Painting, Sculpture, Ceramics, Drawing I CCP, or Mixed Media Art
Students starting Art Foundations in the 10th Grade:		**Art Foundations	*Drawing, Painting, Sculpture, Ceramics, Drawing I CCP, or Mixed Media Art	AP Art or Advanced Art or Drawing, Painting, Sculpture, Ceramics, Drawing I CCP, or Mixed Media Art
Students starting Art Foundations in the 11th Grade:			Art Foundations	Drawing, Painting, Sculpture, Ceramics, Drawing I CCP, or Mixed Media Art
Students starting Art Foundations in the 12th Grade:				Art Foundations
*AP Art requires Drawing or CCP Drawing and 2 additional semester art classes after Art Foundations such as: Ceramics, Sculpture, Painting, and Mixed Media Art. Advanced Art requires prior semester art courses to be taken so it is not suggested as part of a plan for AP Art.				
**Taking Art Foundations in 10th grade will require you to take Drawing and 2 other semester art courses in 11th grade in order to qualify for AP Art.				

#### ART FOUNDATIONS - 9, 10, 11 and 12

Art Foundations is a general visual arts experience designed for any student. Students will be introduced to both two and three-dimensional art areas, using the fundamentals of Elements and Principles of art. Areas to be included during the year are drawing, painting, printmaking, ceramics, and sculpture.

Prerequisites: There are no prerequisites for this course, but this course is the prerequisite for every other visual art course offered. If a student is wanting to join Port Prep their Senior year, Art Foundations should be taken Freshman year in order to fit in the required courses.

Fee required - \$65.00

1 credit

#### CERAMICS - 10, 11, and 12

This is a course that will introduce students to hand-building ceramics. Emphasis will be placed on developing hand-building skills, design, surface decoration, and art history. Group critiques, individual critiques, and studio demonstrations will emphasize ceramic art forms. Emphasis will be on originality, craftsmanship, creativity, compositional design, and presentation.

Prerequisite: Passing grade in Art Foundations.

Fee required \$45.00

½ credit

#### DRAWING - 10, 11, and 12

This course will focus on multiple drawing mediums such as pencil, pastels, charcoal, and inks. Emphasis will be placed on the development of drawing through a variety of media and subject matter. Students will further explore the elements and principles of design, perspective, foreshortening, and composition. Emphasis will be on originality, creativity, compositional design, craftsmanship, and presentation.

Prerequisite: Passing grade in Art Foundations

Fee required \$35.00

½ credit - semester course

## **DRAWING I CCP (LCCC ARTS 161)**

Introduces basic drawing methods, media, and concepts.

Studio experiences emphasize drawing from observation and the development of line, mass, proportion, negative/positive space and shape, composition, light, relative values, and perspective. Emphasis will be on drawing objects in a still-life, compositional design, craftsmanship, and presentation.

Prerequisite(s): College Placement Exam and while it is not required, it is highly suggested that all students take Art Foundations as a prerequisite to this course in order to be prepared.

1 high school credit

3 college credits

## **MIXED MEDIA ART - 10, 11, and 12**

This class is an extension of the skills learned in Art Foundations, in which the students will apply many different art techniques and mediums. The students will utilize computer programs as a tool to help create and alter their designs to be used to make Painting, Printmaking, and Ceramic projects. Emphasis will be on originality, creativity, compositional design, craftsmanship, and presentation.

Prerequisite - Passing Grade in Art Foundations

Fee required - \$45.00

½ credit – semester course

## **PAINTING - 10, 11, and 12**

This course will focus on multiple painting mediums such as watercolor, acrylic, and oil. Color theory and painting techniques will be introduced in each medium. Emphasis will be on originality, craftsmanship, creativity, compositional design, and presentation.

Prerequisite: Passing grade in Art Foundations

Fee required - \$45.00

½ credit

## **SCULPTURE - 10, 11 and 12**

This course serves as an introduction to sculpting with a variety of materials. Emphasis will be placed on the understanding of tools, materials, processes, media, and techniques. Materials used include found objects, plaster, wire, paper, and fabric.

Emphasis will be on originality, creativity, compositional design, craftsmanship, and presentation.

Prerequisite: Passing grade in Art Foundations

Fee required - \$45.00

½ credit - semester course

## **ADVANCED ART - 11 and 12**

This course was developed for the student who has already taken the upper-level course offered, such as drawing, painting, ceramics, or sculpture. It will give self-motivated art students the opportunity to further skills in any of their previous art courses by expanding their comprehension of media potential. Advanced Art students will be confronted with problems of increasing complexity. Attention will be given to composition principles and technical control. Students will have in-depth studies of media and design relating to their chosen course of Advanced Drawing, Advanced Painting, Advanced Ceramics, or Advanced Sculpture. Each student will work independently with the guidance of an instructor to develop their specific course goals.

Emphasis will be on originality, creativity, compositional design, craftsmanship, and presentation.

Prerequisite: "B" or better in Art Foundations, plus "B" or better in the beginning level semester art course that is being continued in this course (example: If a student wishes to take Advanced Drawing, a B or better is required in Drawing).

Fee Required - \$35.00

½ credit

## **AP ART - 12**

This intensive art course, which has replaced portfolio prep, is for students who are interested in creating high quality art and are committed to successfully creating a cohesive portfolio of artwork. This course follows the AP guidelines for portfolio preparation and student will choose to focus in one of three areas: 2-D Design, 3-D Design or Drawing. The students will create a body of work guided by a Sustained Investigation throughout the school year. The students will focus on three areas of development: quality (works that excel in concept, composition and execution); concentration (a series of works organized around a compelling visual concept); and breadth (works that demonstrate broad experience and accomplishment). All students who take the course are required to submit their work for the AP examination. Students in AP Art will prepare an art display of their work for the High School Art Show in May. A weighted grade is given for this course.

Prerequisites: A "B" or better in Art Foundations and Drawing, as well as a "B" or better in two additional semester courses. A teacher recommendation is also required.

Fee required - \$65.00

AP Exam Fee (approximate) - \$98.00

1 credit

**BUSINESS**

Business Course Path Suggestions*			
Grade Level	Option 1	Option 2	Option 3
9th	Principles of Accounting	Marketing Principles	Digital Marketing and Management
10th	Business Principles and Management/ Marketing Principles	Business Principles and Management	Marketing Principles
11th	Strategic Entrepreneurship	Digital Marketing	Business Principles and Management/ Accounting
12th	Digital Marketing/ Marketing Capstone	Digital Marketing II/ Strategic Entrepreneurship/ Marketing Capstone	Digital Marketing II/ Strategic Entrepreneurship/ Marketing Capstone
*Courses can be taken individually or in other orders. These are suggestions.			

**MARKETING PRINCIPLES - 9, 10, 11 and 12**

Marketing Principles is a management process through which goods and services move from concept to the customer. This course outlines the essential concepts, principles, and terminology required to understand basic marketing. The material will deal with the areas of promotion, place, product, and price, the general marketing environment, and information sources for marketing decisions. Students will explore these concepts through projects and student discovery.  
1 credit

**DIGITAL MARKETING AND MANAGEMENT I and II - 9, 10, 11 and 12**

Digital Marketing and Management is an exciting area of marketing practice. With the constantly changing online platforms, students will be exposed to online marketing strategies, YouTube, Twitter, mobile apps, websites, search engines, newsletters, and many more. Students will learn basic HTML 5 and other online resources such as email marketing, SEO (Search Engine Optimization). Students will create content for Digital Marketing Boards throughout the school. In addition, students will be working with different organizations to assist in their digital needs. **Digital Marketing II is available for students that have already taken Digital Marketing I.**  
1 credit

**PRINCIPLES OF ACCOUNTING & FINANCE - 9, 10, 11 and 12**

Accounting is the language of business. Finance deals with matters related to resource allocation and the market. This course provides a good foundation for future success at the college level as well as many benefits for personal use and small business ownership. Computers are utilized in the course to give students a realistic view of how many businesses perform accounting and financial tasks.  
½ credit –semester course

**BUSINESS PRINCIPLES AND MANAGEMENT - 10, 11 and 12**

Students enrolled in Business Principles will learn concepts of accounting, business law, finance, marketing, and management to tie into the development and operations of a business through team project-based learning. Students will develop their innovative products throughout the year enhancing the time and financial management aspects of the business through community partnerships.  
1 credit

## **STRATEGIC ENTREPRENEURSHIP - 11 and 12**

Want to own your own business or nonprofit? Students will discuss the advantages and disadvantages of owning a small business. Students will create their own startup. This course will require collaboration to brand, raise capital, sell, record transactions, and expenses to realize all aspects of a small business. In addition, students will explore internship/shadow possibilities within the small business atmosphere and reflect on their experience with a final presentation to culminate their experience. Students may be eligible for college credits through Lorain County Community College.

Prerequisite: Business Principles and Management or Marketing Principles

1 credit

## **PERSONAL FINANCE - 9, 10, 11 and 12**

This is a required course beginning with the class of 2020. Students will develop their abilities to make wise consumer decisions by recognizing, understanding, and comparing the alternatives facing them as consumers. Some topics covered are budgeting, purchasing decisions, consumer credit, banking services, investing, life, auto, and property insurance, income taxes, and housing options.

½ credit –semester course

Course Fee: \$10.00

## **PERSONAL FINANCE CCP (LCCC ECNM 113)**

This course is an analysis of the consumer's role in our economic system. Topics covered include: money management, budgeting, saving, and borrowing, use of credit, financing long-term purchases, insurance and investments, taxes, and retirement and estate planning. This course is recommended for juniors and seniors.

Prerequisite: Students MUST qualify for Personal Finance CCP through the college admission process.

1 high school credit

3 college credits

## **MARKETING CAPSTONE/INTERNSHIP - 11 and 12**

This course will provide students an opportunity to enter the workforce and develop employability skills creating a connection between academic courses and the real world. Students will spend the majority of their time within a company, harvesting relationships, and exploring their career interests. The work-based learning will culminate with reflection and presentation of the internship experience. After enrollment, students are to meet with the teacher to establish internship possibilities before the end of the previous school year. Prerequisite - Teacher recommendation

1 credit

## GENERAL ELECTIVES

**AP SEMINAR - 10-12**

The AP Seminar course may enable students to earn college credit. AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments. (Source: Collegeboard.org). This class is the first of 2 courses to be taken in sequence; however, it can be taken as a stand-alone class. Preference will be given to 10th & 11th students as this is the first of 2 consecutive courses in the AP Capstone Program. A weighted grade is given for this course.

Prerequisites: none

Fee: None

AP Exam Fee: \$142 (approximate)

1 credit

**AP RESEARCH - 11-12**

The AP Research course may enable students to earn college credit. AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan and conduct a year-long research-based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4000–5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense. A weighted grade is given for this course.

Prerequisites: AP Seminar

Fee: None

AP Exam Fee: \$142 (approximate)

1 credit

**HOME MAINTENANCE AND REPAIR - 10, 11, AND 12**

This course is a home literacy class that will examine home maintenance and problems that are commonly undertaken by the average homeowner. Students who learn the skills taught in class can save thousands of dollars on their own homes in the future. Hands-on learning experiences will use classroom learning to address home maintenance problems that may include home financing, basic wood framing, drywall, house wiring, plumbing repairs, automotive maintenance, woodworking, and painting. This course would be a semester class and count as an .5 credit hour.

½ credit - semester course

## HEALTH AND PHYSICAL EDUCATION

### LIFETIME WELLNESS & PHYSICAL FITNESS I - 9, 10, 11 and 12

This course, formerly known as Nutrition and Wellness, provides students with an understanding of the principles of nutrition and the relationship of nutrition to health and wellness. The class format consists of lecture/group work and project-based learning (2 days per week), physical activity days (2 days per week), and nutritional cooking labs (1 day per week). Various topics will be discussed such as physical health and fitness, food safety and sanitation, the selection and preparation of foods, cost comparison strategies, making nutritious food choices, and several other introductory nutrition and wellness topics that are applicable to teenagers. Students are required to wear appropriate clothing/footwear during physical activity days. **This course DOES NOT fulfill/replace the Health/PE course requirement for graduation.**

Fee required - \$30.00

½ credit – semester course

### LIFETIME WELLNESS & PHYSICAL FITNESS II - 9, 10, 11 and 12

**Prerequisite:** Lifetime Wellness and Physical Fitness I This course, formerly known as Nutrition and Wellness II, builds on concepts learned in Lifetime Wellness and Physical Fitness I. The class format consists of lecture/group work and project-based learning (2 days per week), physical activity days (2 days per week), and nutritional cooking labs (1 day per week). It enables students to further explore the components and lifelong benefits of sound nutrition and wellness practices and empowers them to apply these principles in their everyday lives. Continued study is the impact of daily nutrition and wellness practices on long-term health and wellness; the physical, social, and psychological aspects of healthy nutrition and wellness choices, and the impact of science and technology on nutrition and wellness issues.

Students are required to wear appropriate clothing/footwear during physical activity days.

Fee required - \$30.00

½ credit – semester course

### PHYSICAL EDUCATION

This course will allow students to be exposed to a wide variety of activities, games and sports with the intent to develop interests, skills, and an appreciation for a more active lifestyle as an adult. In addition, students will participate in fitness activities twice a week and will learn proper sequences to develop an individual fitness plan. Students are required to wear appropriate clothing/shoes for the activities. **This is the only course that can be used towards the PE graduation requirement.**

Fee required - \$5.00

¼ credit – semester course

### SPORTS OFFICIATING I - 9, 10, 11, and 12

Sports Officiating is a Health and Physical Education elective that will allow students to gain knowledge in organized team sports. This course provides students with opportunities to officiate organized team sport competitions. This is a study of sports officiating while learning the rules, mechanics, and fundamentals of sports. This class will offer the opportunity to officiate in youth Flag Football and Basketball games within our community. Students will also learn how to run the scoreboard (Basketball and Football), keep a scorebook (Basketball), run the chains + scoreboard (Football). This class will focus on the skills necessary to become a sports official, with the opportunity to make up to \$10-30 an hour and gainful/supplementary employment for a lifetime. Students may take additional courses in order to get certified by the OHSAA. **This course DOES NOT fulfill/replace the Health/PE course requirement for graduation.** The purchase of a black “Fox 40” whistle is required.

½ credit – semester course

### YOGA - 9, 10, 11, and 12

This course is designed to introduce students safely to the basic postures, breathing techniques, and relaxation methods of yoga. Students will begin to experience the benefits of stretching, moving, and breathing freely as they relieve built-up stress, learn to relax, and ultimately get more out of day-to-day life. The aim of this course is to promote vibrant health and tap the body's latent energy reserves. Students are required to wear appropriate clothing/shoes for the activities.

Fee required - \$5.00

½ credit – semester course

### SPINNING (INDOOR CYCLING) - 9, 10, 11, and 12

This course is designed to help all students increase their fitness levels. Students will be taught to train effectively by using their heart rate as a guide for workout intensity. This class is an excellent choice for any student who desires to increase fitness levels and for the student-athlete who wants to cross-train. Sports nutrition and the basic concepts of smart training and exercise physiology will also be discussed. Students are required to wear appropriate clothing/shoes for the activities.

Fee required - \$5.00

½ credit – semester course

**HEALTH - 9 and 10**

This course will encourage students to develop and maintain positive health habits. They will be exposed to negative health behaviors that could have a domino effect on their own lives. The students will receive factual information to dispel societal misconceptions concerning various health-related issues. Several of the general topics covered are mental and emotional health, issues of teenagers, smart social media use, problems of non-medical substance use, opioid education, alcohol/tobacco education, preventable/treatable diseases and disorders, sexuality and family life, nutrition, and physical fitness, and first aid/CPR information and emergency/crisis response. Any questions or concerns over course content should be addressed directly to the instructor or their counselor. **Must be completed by the end of sophomore year. This is the only course that can be used towards the Health graduation requirement.**

½ credit – semester course

**PERSONAL DEVELOPMENT - 10, 11, and 12**

This course focuses on relationships. Students examine facts and issues relative to teenagers through adult life and learn to deal with stress, conflict, and crisis. This course also addresses important social issues such as dating relationships, etiquette and manners, marriage preparation, social media, independent living, and the function of the family unit. This course may also cover topics related to self-development, workplace and career development, and personal nutrition. Weekly nutritional cooking labs will be held. This is a project-based learning course and active participation and teamwork are integral to success in the class.

Fee required - \$30.00

½ credit – semester course

**SPORTS PERFORMANCE AND WEIGHT TRAINING - 9, 10, 11, and 12**

This course is designed for those students interested in developing body strength for advanced sports skills. Students will learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will learn the basic fundamentals of weight training, basic introduction to the anatomy of movement as related to weight training, strength training, aerobic training, fitness training, and conditioning. Students will participate in comprehensive weight training and cardiorespiratory endurance activities. Students are encouraged to have a physical exam before participating. **Recommended for student-athletes. Note: This class is offered during early bird before school starts. It is also offered during the school day. Students are able to take this course twice during the day but it can only be taken once during periods 1-8.**

¼ credit – semester course

**PARENTING AND CHILD DEVELOPMENT - 10, 11, and 12**

This is a course designed to provide you with experiences and information in the area of parenting and child development. The class format consists of lecture/group work, project-based learning, field experience, and nutritional cooking labs. Students gain knowledge of how parents and child care providers meet the needs of infants and young children to provide for healthy growth and development. Some topics addressed include conception, birth, child development, parenting, play, and basic nutrition for children and families. Students will participate in projects that will include children and our local community. Students will also have a weekend-long experience with a computer-simulator baby.

Fee required - \$30.00

½ credit – semester course

**INTRODUCTION TO EXERCISE SCIENCE CCP (LCCC HPED 165)**

This course provides an overview for becoming a health, physical education, sport, or fitness professional. Sports Management professions such as facility management, sports information, marketing, athletic training, public relations, ticketing, and journalism will be discussed. Information concerning choosing a career, national certifications, professional organizations, legal issues, and how to market yourself, will be addressed. Students gain practical knowledge of the types of careers available, and the qualifications needed to enter these professions.

Prerequisites: College Placement Exam

1 high school credit

3 college credits

**ADAPTIVE PE/HEALTH**

This course will allow students to be exposed to a wide variety of activities, games, and sports with the intent to develop interests, skills, and an appreciation for a more active lifestyle as an adult.

Recommendation only.

Year-long course



LANGUAGE ARTS

Grade Level	College/Career Path	Honors Path	Electives
9th	Language Arts 9	<sup>1</sup> Language Arts 9 Honors	Publications <sup>4</sup>
10th	Language Arts 10	Language Arts 10 Honors	Publications <sup>4</sup>
11th	Language Arts 11 College Composition I CCP <sup>2</sup> College Composition II CCP <sup>3</sup>	AP Language & Composition <sup>1</sup>	Publications <sup>4</sup> Creative Writing
12th	Language Arts 12 Language Arts Capstone College Composition I CCP <sup>2</sup> College Composition II CCP <sup>3</sup> Multicultural Literature CCP <sup>3</sup> Intro to Literature CCP <sup>3</sup>	AP Language & Composition <sup>1</sup>	Publications <sup>4</sup> Creative Writing

1. AP/Honors Courses are self-selected with the guidance of your current English teacher. Please contact your teacher if you would like to enroll in an honors/AP course but were not recommended.
2. Admission to College Composition I CCP requires students to follow the state-mandated process for eligibility and enrollment. We also encourage students to seek guidance from their classroom teacher to help determine whether this class is appropriate for them.
3. Requires College Composition I CCP.
4. Requires recommendation by the student’s English teacher or the English department chair.

**LANGUAGE ARTS - 9, 10, 11, and 12**

These courses are designed to prepare students to be literate members of society. To accomplish this, students will read a variety of print and non-print texts to construct an understanding of themselves and their world. This will include reading to understand their own and other cultures as well as reading to satisfy the demands of the workplace and to acquire new information. This includes preparing them for any post-secondary opportunities they may choose to pursue. These readings will be reinforced and extended by multiple writing assignments addressed to various audiences and purposes. Students will also learn the grammatical structures that make communication clear and effective and demonstrate their ability to communicate effectively as they read, write, speak, listen and view a variety of media. As students advance, each year will increase the emphasis placed on preparation for the ACT and SAT as well as the development of critical thinking and research skills necessary for post-secondary study. Ultimately, the goal of these courses is to foster each student’s ability to use language to accomplish his or her own purposes. (Students in 10th grade will take the ELA II End of Course Exam, required by the state of Ohio, for this course).

Fee required - \$30.00

1 credit

**LANGUAGE ARTS CAPSTONE - 12**

This course is designed for students whose main educational focus is on career readiness or a non-traditional college path. It is designed to help students develop their language and communication skills through reading and writing. Students will consider literary and informational and non-print texts and respond to them through writing and discussion. Responses will be structured around the students’ understanding of themselves and their world. This course differs from Language Arts 12 in its pace and the choice of reading selections.

Fee required - \$30.00

1 credit



**LANGUAGE ARTS HONORS - 9 and 10**

These courses are designed for the academically talented student who is interested in English Language and Literature, and they are available to any student willing to meet their challenges. Honors courses offer intense enrichment of the language arts curriculum (including mandatory summer reading) and are designed to prepare students for the AP English program. These honors courses will differ from the language arts courses largely in terms of the amount of reading and writing required and in the difficulty of assigned texts. Emphasis will be placed on the reading of multiple genres and the development of their common themes. The course will focus on an individual student's ability to create meaning from texts. To this end, students will learn the techniques of literary analysis and be introduced to literary theory. A weighted grade is given for this course. (Students in 10th grade will take the ELA II End of Course Exam, required by the state of Ohio, for this course).

Prerequisite- Entrance by teacher recommendation or permission of the ELA department chair. Students not recommended who desire to take the course should see their English teacher or the English department chair.

Honors Course

Fee required - \$30.00

1 credit

**AP ENGLISH LANGUAGE AND COMPOSITION - 11 or 12**

The Advanced Placement English Language and Composition course may enable students to receive college credit. The course seeks to provide an intellectually enriching experience for our most capable students by engaging them with complex texts, especially focusing on the rhetorical strategies used in prose texts. Students will also experience numerous opportunities to use rhetorical strategies in their own writing. Like most first-year college courses, the AP Language class will emphasize expository, analytical, and argumentative writing. The course will also teach that college writing is most often based on reading as well as on personal experience. Put succinctly, the class will enable students to read complex texts and to write the kind of prose necessary to communicate effectively in academic and professional environments. A weighted grade is given for this course.

Prerequisite: recommendation of English teacher or ELA department chair. Students not recommended who desire to take the course should see their English teacher or the English department chair.

Fee required - \$30.00

AP exam fee (approximate) - \$98.00

***Requirements of AP English Language and Composition:***

1. Summer Reading: Students are encouraged to read approximately five books before the first day of class.  
Students must purchase their own copies of the appropriate editions of each book.
2. AP Test: All AP English Language and Composition students are required to take the AP test in May.
3. Written Work: All written work done outside of class must be turned in on the due date.

**AP ENGLISH LITERATURE AND COMPOSITION - 11 or 12**

Advanced Placement English Literature and Composition is a course that may enable students to receive college credit. The course seeks to provide an intellectually enriching experience for our most capable students by engaging them with complex literary works and teaching them the ways that sophisticated readers build meaning from those texts. Like most first-year college courses, the AP Literature class will emphasize expository, analytical, and argumentative writing. The course will also teach that meaning is constructed not only upon personal experience but also from a variety of theoretical perspectives. Students will learn to read as they will be required to at the university while learning to demonstrate and defend their constructions. These are interpretative and communication skills that are critical for college success. A weighted grade is given for this course.

Prerequisite: recommendation of English teacher or ELA department chair. Students not recommended who desire to take the course should see their English teacher or the English department chair.

Fee required - \$30.00

AP exam fee (approximate) - \$98.00

***Requirements of AP English Literature and Composition:***

1. Summer Reading: Students are encouraged to read approximately five books before the first day of class.  
Students must purchase their own copies of the appropriate editions of each book.
2. AP Test: All AP English Literature and Composition students are required to take the AP test in May.
3. Written Work: All written work done outside of class must be turned in on the due date.

**COLLEGE COMPOSITION I CCP (LCCC ENGL 161)**

An introduction to fundamental college-level skills in academic reading and writing. Summary, analysis, synthesis, and research documentation are emphasized, along with critical thinking and collaborative learning. A weighted grade is given for this course.

Prerequisite: \*Students MUST qualify for College Composition I through the college admission process and a placement test

1 high school credit

3 college credits

## **COLLEGE COMPOSITION II CCP (LCCC ENGL 162)**

A writing course continuing the practice of skills introduced in College Composition I, as well as strategies of argumentation and secondary research leading to a research paper. English Core Course. A weighted grade is given for this course.

Prerequisite: College Composition I

1 high school credit

3 college credits

## **MULTICULTURAL LITERATURE CCP (LCCC ENGL 268G)**

Through the use of selected texts, students will become familiar with both western and non-western authors from a variety of global cultures. This class will provide an introduction to the reading of contemporary and classic texts through examination of their cultural contexts. It will include effective ways to write about literature based on the interplay between multiple meanings in a variety of texts. Humanities Core Course. A weighted grade is given for this course.

Prerequisite: College Composition I CCP

1 high school credit

3 college credits

## **INTRODUCTION TO LITERATURE CCP (LCCC ENGL 250)**

Introduction to literary and textual study with attention to various forms of fiction, creative nonfiction, drama, poetry, and to essential literary terminology and practice. This course will offer entry into the study of how readers make meaning from a broad variety of literature. Readings and topics may vary each semester. A weighted grade is given for this course.

Prerequisite: College Comp I CCP

1 high school credit

3 college credits

## **PUBLICATIONS - 9, 10, 11 and 12**

Carefully selected students enter this class. These students are then responsible for producing both the school newspaper and the yearbook. They learn the necessary language and design skills and perfect these skills as they remain in the program.

Publications is a full-year course. Prerequisite: Teacher recommendation

1 credit

## **CREATIVE WRITING - 11 and 12 Elective Course**

Students will explore the art and craft of creative writing. This will include short story, poetry, essay, memoir, drama, or other specialized writing topics. The course is designed around the study of the practice of writing, including analysis and imitation.

Assignments will reflect an understanding of form and genre as well as how they are creatively applied. Enrolled students must be entering junior or senior year

1 credit

**MATHEMATICS**

**PATHWAYS:**

The set of flowcharts below show typical math pathways for students based on the course selected for the 9th grade year. Other paths are possible, but they are rare exceptions. Prerequisites and corequisites must be considered and are specified within each course's description.

The **BOLD** lines represent the path taken by most students. Dotted lines represent courses that can be taken concurrently.

**COMPUTER SCIENCE:**

OFHS also offers two computer science courses, AP Computer Science Principles (introductory course) and AP Computer Science A (coding course). The curriculum taught in these courses is college-level material and is designed for students who have an interest in computer science. They can be taken concurrently with other math courses as long as prerequisites are met.

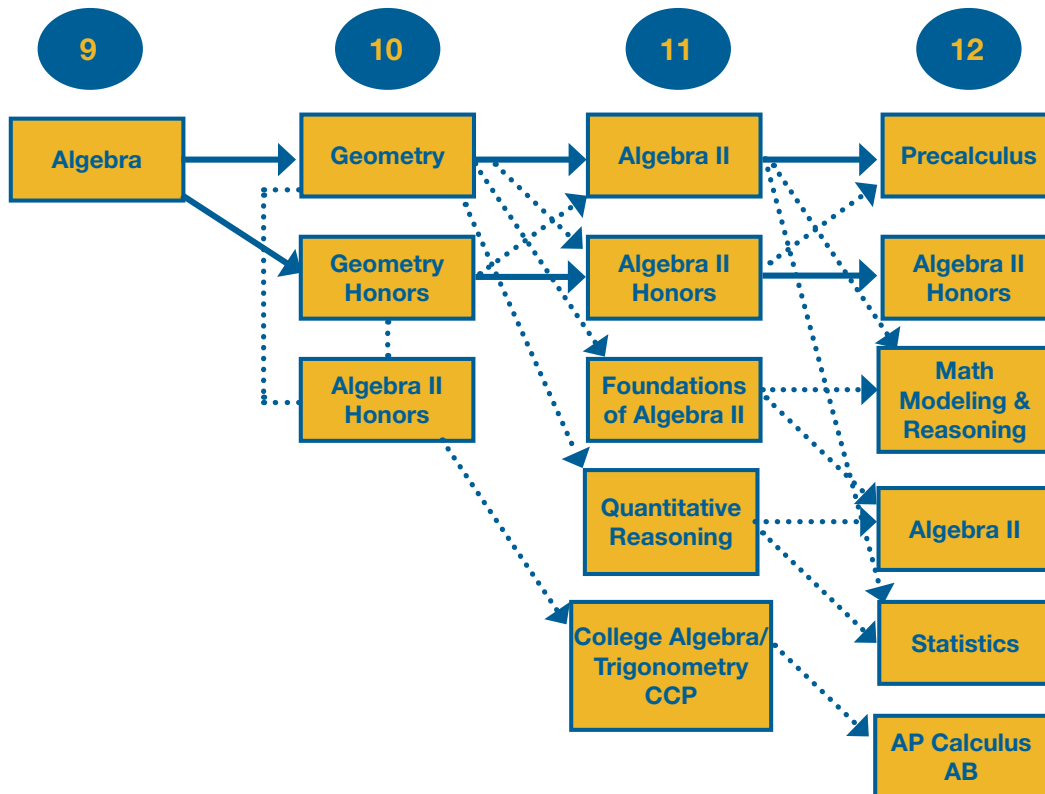
**CALCULATORS:**

The use of calculators and a Chromebook is a routine expectation in all OFHS math courses. The calculators mentioned in each course description are recommendations. A student taking the SAT or ACT will be required to bring their own calculator to the test. Students taking End of Course exams for Algebra and Geometry may use their own calculator or the calculator embedded in the electronic test.

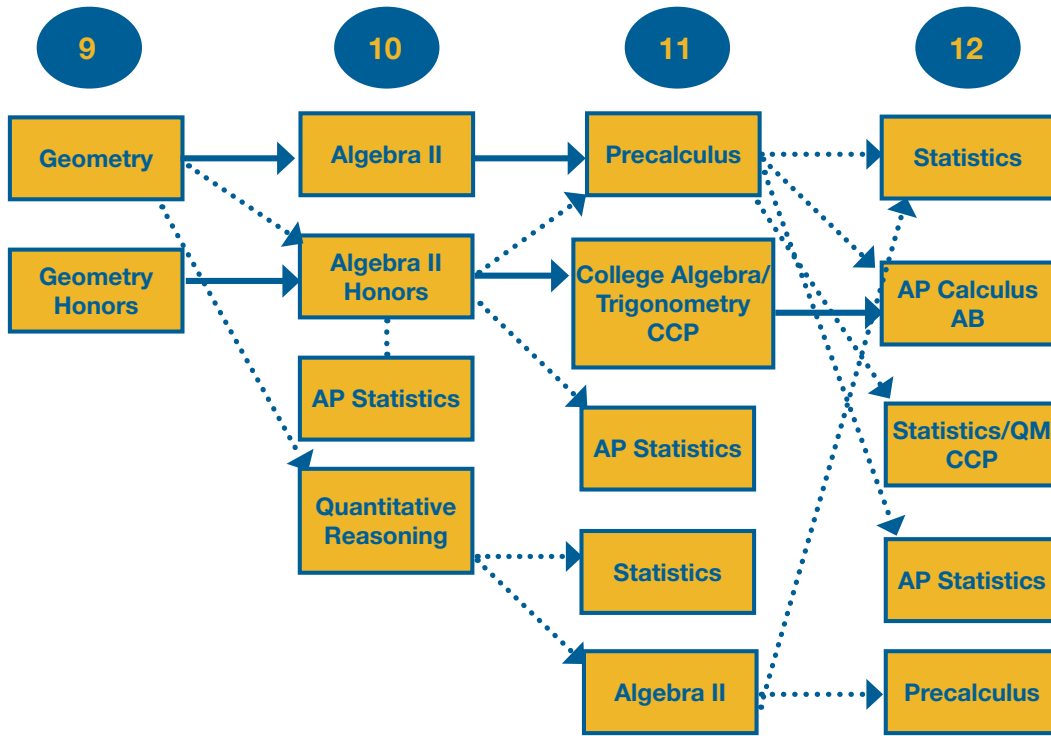
Questions regarding a mathematics course or pathway can be directed to any math teacher, guidance counselor, or administrator at OFHS.

**TYPICAL PATHS BASED ON 9TH GRADE MATHEMATICS COURSE**

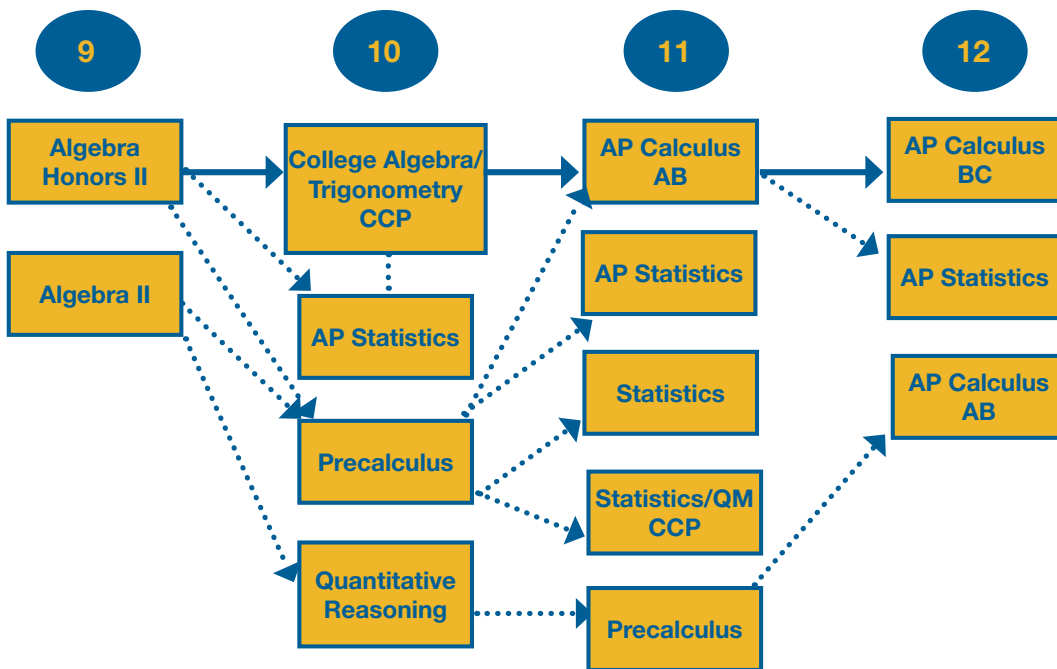
ALGEBRA



GEOMETRY/HONORS GEOMETRY



ALGEBRA 2 / HONORS ALGEBRA 2



**ALGEBRA**

This course covers many traditional topics of first-year Algebra while attempting to apply skills to basic Geometry and Data Analysis where appropriate. Students are introduced to the use of graphing calculators. This course is aligned with the Common Core standards. Students will take the Algebra 1 End of Course Exam, required by the state of Ohio, for this course.

Technology required: TI Nspire, TI-84 or TI-83 and/or Desmos (on-line graphing calculator)

Fee required - \$15.00

1 credit

**GEOMETRY**

This Geometry course is a blend of various approaches to the subject with emphasis upon using Algebra skills previously learned. Problem-solving remains a major theme within the course. Students will use appropriate software to enhance their experience in the course. This course is aligned with the Common Core standards. Students will take the Geometry End of Course Exam, required by the state of Ohio, for this course.

Prerequisite: Algebra

Technology required: Scientific calculator, TI Nspire, TI-84 or TI-83 and/or Desmos (on-line graphing calculator)

Fee required - \$15.00

1 credit

**GEOMETRY HONORS**

Students who are identified as mathematically talented by their Algebra teacher may enroll in this accelerated Geometry course. The honors track culminates with Advanced Placement work. Students are expected to adhere to a high level of scholarship and will be exposed to more topics, more challenging problems and an extensive use of technology all at an accelerated pace. Students will take the Geometry End of Course Exam, required by the state of Ohio, for this course. A weighted grade is given for this course.

Prerequisite: Algebra I and recommendation of the Math Department

Technology required: Scientific calculator, TI Nspire, TI-84 or TI-83 and/or Desmos (on-line graphing calculator)

Honors course

Fee required - \$15.00

1 credit

**ALGEBRA II**

This is the full college preparatory Advanced Algebra course aligned to the Common Core standards. Students will study such topics as linear functions, trigonometric and circular functions, step functions, sequences and series, polynomial functions, logarithmic functions as well as some symbolic manipulations skills of more traditional algebra. Emphasis is on problem-solving and appropriate use of emerging technologies to study relevant mathematics.

Prerequisite: Geometry or permission of the Math Department

Technology required: TI Nspire, TI-84 or TI-83 and/or Desmos (on-line graphing calculator)

Fee required - \$15.00

1 credit

**ALGEBRA II HONORS**

This course is designed for students who intend to study AP Calculus. The course covers the traditional topics found in many second-year Algebra courses but to greater depth, with more challenging problems, and at an accelerated pace. Students are expected to use graphing calculators and computer software throughout the course.

A weighted grade is given for this course.

Prerequisite: Honors Geometry, or permission of the Math Department

Technology required: TI Nspire, TI-84 or TI-83 and/or Desmos (on-line graphing calculator)

Honors course

Fee required - \$15.00

1 credit

**FOUNDATIONS OF ALGEBRA II**

This course is intended to prepare students for Algebra II. Students will continue with applications and extensions of content from Algebra and Geometry. An emphasis will be placed on problem-solving and the use of concrete mathematical models to solve real-world problems, with less emphasis on symbol manipulation and formal mathematical structure.

Prerequisite: Algebra I and Geometry (or permission of the Math Department)

Technology required: TI-84 or TI-83 and/or Desmos (on-line graphing calculator)

Fee required - \$15.00

1 credit

## STATISTICS

Statistics is a year-long course using spreadsheets and computer software to explore statistical content typically found in a college-level introductory course in Probability and Data Analysis. The emphasis is on statistical thinking. The course seeks to present numerous examples of data from real-world problems. The mathematics in this course is accessible by a wide range of students and is designed to give students an understanding of the main ideas of statistics and probability.

Prerequisite: Algebra II or permission of the Math Department

Fee required - \$15.00

1 credit

## STATISTICS/QUANTITATIVE REASONING CCP (LCCC MTHM 168/158)

These courses are designed for college-bound students in majors that will not traditionally require College Algebra, Precalculus, or Calculus. One semester will consist of a quantitative reasoning course focusing on real-world applications involving logic and quantitative literacy to build problem-solving skills and critical thinking. The other semester will consist of a non-calculus-based statistics course introducing statistical thinking and methods. An emphasis is placed on using technology to solve problems involving real data. A weighted grade is given for this course.

Prerequisite: A passing score on the College Placement exam and it is strongly recommended that the student have a strong foundation in Algebra II.

Technology required by LCCC: TI Nspire, TI-84 or TI-83

1 high school credit for each semester

3 college credits for Statistics through LCCC

3 college credits for Quantitative Reasoning through LCCC

## AP STATISTICS

The AP Statistics course may enable students to earn college credit. This course covers the syllabus of the College Board for Statistics. It is expected that students will spend at least one hour per day outside of class on required study and homework. This is a college curriculum and students and their parents should consider carefully the commitment necessary for a successful experience. A weighted grade is given for this course.

Prerequisite: Algebra II or taking concurrently with Honors Algebra II

Technology required: TI Nspire provided

Fee required - \$15.00

AP exam fee – approximately \$98.00

1 credit

## PRE-CALCULUS

This is the final course of the college preparatory program aligned to the Common Core. Topics studied include advanced work with functions and their graphs, transformations, trigonometric and circular functions, parametric equations, and vectors. A strong emphasis is placed on limits and estimating the area under a curve. Students will be introduced to derivatives and integrals.

Prerequisite: Algebra II or Honors Algebra II

Technology required: Scientific calculator, TI-Nspire, TI-84 or TI-83 and/or Desmos (on-line graphing calculator)

Fee required - \$15.00

1 credit

## COLLEGE ALGEBRA/TRIGONOMETRY CCP (LCCC MTHM 171/174)

These are college-level Precalculus courses. Topics covered include all those necessary for a successful experience in Calculus. Students will be exposed to many challenging problems and will use technology to enhance their understanding of the material. A weighted grade is given for this course. Prerequisite: Algebra II Honors or Algebra II and a passing score on the College Placement Exam

Prerequisite: Algebra II Honors or Algebra II and a passing score on the College Placement Exam

Technology required: TI-Nspire, TI-84 or TI-83

1 high school credit for each semester

4 College Credits for College Algebra through LCCC

## AP CALCULUS AB

The AP Calculus AB course may enable students to earn college credit. This course covers the syllabus of the College Board for the AB version of calculus, roughly equivalent to a first-semester college calculus course. It is expected that students will spend a significant amount of time outside of class on required study and homework. This is a college curriculum and students and their parents should consider carefully the commitment necessary for a successful experience. A weighted grade is given for this course.

Prerequisite: Pre-Calculus or CCP College Algebra /Trigonometry (LCCC)

Technology required: TI Nspire provided

Fee required - \$15.00

AP exam fee (approximate) - \$98.00

1 credit

**AP CALCULUS BC**

The AP Calculus BC course may enable students to earn college credit. This course covers the syllabus of the College Board for the BC version of calculus, roughly equivalent to both first and second-semester college calculus courses including series, polar functions, and parametric functions. It is expected that students will spend a significant amount of time outside of class on required study and homework. This is a college curriculum and students and their parents should consider carefully the commitment necessary for a successful experience. A weighted grade is given for this course.

Prerequisite: AP Calculus AB

Technology required: TI Nspire provided

Fee required - \$15.00

AP exam fee (approximate) - \$98.00

1 credit

**AP COMPUTER SCIENCE PRINCIPLES**

The AP Computer Science Principles course may enable students to earn college credit. This course introduces students to the essential ideas of computer science and helps them understand how computing and technology can influence the world around them. Students will conceive and implement digital projects. Students will also learn creative problem solving, will work with and analyze large data sets, examine cyber security issues, create programs or technology that have a practical impact. A weighted grade is given for this course.

Prerequisite: Algebra I

Technology Requirement: Personal computer with appropriate software to work on assignments outside of the classroom or arrange time commitments to allow for use of school computer labs to complete assignments.

Fee Required - \$15.00

AP exam fee (approximate) - \$98.00

1 credit

**AP COMPUTER SCIENCE A**

The AP Computer Science A course may enable students to earn college credit. This class is a computer programming class that will focus on the design and implementation of computer programs. As of this time, the language of choice for AP Computer Science A is JAVA. The "A" course is equivalent to a first-semester college-level course in computer science. Students should weigh carefully the time commitments for enrollment in this course. A weighted grade is given for this course.

Prerequisite: Algebra II and AP Computer Science Principles is recommended.

Technology Requirement: Personal computer with appropriate software to work on assignments outside of the classroom or arrange time commitments to allow for use of school computer labs to complete assignments.

Fee Required - \$15.00

AP exam fee (approximate) - \$98.00

1 credit

**QUANTITATIVE REASONING**

This course is designed to promote reasoning, problem-solving and modeling, while reinforcing and extending content in Number and Quantity, Algebra, Functions, Statistics and Probability, and Geometry. It applies quantitative reasoning to real-world contexts, in order to make decisions relevant to daily life. This course is an Algebra 2 equivalent course, and will satisfy the credit requirement for Algebra 2.

Fee required - \$15.00

1 credit

## MUSIC: INSTRUMENTAL

Students enrolling in the high school band should select one of the following four concert band courses based on student ability, experience, and director recommendation.

### **SYMPHONIC WINDS OR SYMPHONIC /CHAMBER CHOIR OPTION**

This course is designed to provide students who have been placed in this ensemble with an opportunity to improve basic skills and develop advanced skills on a musical instrument. Candidates for this class should have experience on a band instrument. Students in this course will be placed based on audition. Participation in all concerts and marching band are considered an extension of the classroom and are required. The school and the Music Department also expect students to participate in marching band performances, OMEA Solo and Ensemble and Large Group Contest, selected pep performances, and special appearances. Attendance at summer band camp is **REQUIRED** for this course and will be factored into the Quarter 1 & 2 grade. Prerequisites: Audition and placement by the director.

Fee for supplies: \$35

1 credit

### **WIND ENSEMBLE OR WIND ENSEMBLE/BEL CANTO CHOIR OPTION**

This is a more rigorous course designed for upper-class musicians who are ready for a challenging musical curriculum. Music artistry and the introduction of college music fundamentals are stressed. Performance in all concerts, as well as commencement, is considered an extension of the classroom and is required. Performance in marching band, selected pep performances, OMEA Solo and Ensemble, and Large Group Contests are expected. Attendance at summer band camp is **REQUIRED** for this course and will be factored into the Quarter 1 & 2 grade.

Prerequisites: Audition and placement by the director.

Fee for supplies: \$35

1 credit

### **WIND BAND**

This is a more rigorous course designed for advanced underclass musicians who are ready for a challenging musical curriculum. Music artistry and the introduction of college music fundamentals are stressed. Performance in all concerts, as well as commencement, is considered an extension of the classroom and is required. Performance in marching band, selected pep performances, OMEA Solo and Ensemble, and Large Group Contests are expected. Attendance at summer band camp is **REQUIRED** for this course and will be factored into the Quarter 1 & 2 grade.

Prerequisites: Audition and placement by the director.

Fee for supplies: \$35

1 credit

### **WIND SYMPHONY OR WIND SYMPHONY/CHORALE OPTION (HONORS)**

This course is a more rigorous course designed for upper-level musicians. Music artistry and college music fundamentals are stressed. In addition, members may complete the honors for this course. Members in this group will rehearse with advanced literature and in a fast-paced setting. Students in this course must be successful at sight-reading and excellent at the basics of their instrument. Participation in all concerts, as well as graduation, is considered an extension of the classroom and is required. The school and the Music Department also expect students to participate in marching band performances, selected pep performances, OMEA Solo and Ensemble and Large Group Contests, as well as other concerts or honors programs that are available. Attendance at summer band camp is **REQUIRED** for this course and will be counted toward Quarter 1 & 2 grades. A weighted grade is given for this course.

Prerequisites: Audition and placement by the director

Fee for supplies: \$35

1 credit

### **INSTRUMENTAL JAZZ BAND OR INSTRUMENTAL JAZZ BAND/GOLDEN EXPRESSIONS OPTION**

Select ensemble focusing primarily on the performance of Jazz Music, theory, history, improvisation, and or various percussion/rhythm techniques. Members must also register for and be a member of one of the large bands. Certain rhythm section instruments may be considered for jazz only based on the director's discretion. Members may participate in selected pep performances as a combo ensemble. This course is designed for grades 10-12.

Prerequisites: Audition and placement by the director.

1 credit.



**MUSIC: VOCAL**

Students enrolling in high school choir should select one of the following ensembles based on student ability, experience, and director recommendation.

**CHAMBER CHOIR OR SYMPHONIC WINDS/ CHAMBER CHOIR OPTION**

This course is designed to provide any student with an entry-level tenor-bass high school choral experience. Singers will be introduced to high school choral repertoire and learn basic musicianship and singing and score reading techniques. Performance in all concerts is considered an extension of the classroom and is required. Band members should note the requirements listed under instrumental music.

Prerequisites: Audition and placement by the director.

Fee for supplies - \$15.00

1 credit

**BEL CANTO CHOIR OR WIND ENSEMBLE/BEL CANTO CHOIR OPTION**

This course is designed to provide any student with an entry-level soprano-alto high school choral experience. Singers will be introduced to high school choral repertoire and learn basic musicianship and singing and score reading techniques. Performance in all concerts is considered an extension of the classroom and is required. OMEA Solo and Ensemble and Large Group Contest are usual expectations for this ensemble. Band members should note the requirements listed under instrumental music.

Prerequisites: Audition and placement by the director.

Fee for supplies - \$15.00

1 credit

**GOLDEN EXPRESSIONS OR JAZZ BAND/GOLDEN EXPRESSIONS OPTION**

This course is a select ensemble focusing primarily on the performance of vocal jazz and pop a capella style music. Members are required to have advanced music reading, improvisation, and singing techniques. Members must also register for and be a member of the Chorale. Performances include concerts and a variety of community events. Band members should note the requirements listed under instrumental music.

Prerequisites: Audition and placement by the director.

1 credit

**CHORALE OR WIND SYMPHONY/CHORALE OPTION (HONORS)**

The ensemble is for the advanced choral musician. Upper-level musicianship, rehearsal techniques, music reading, and vocal techniques are required. College-level literature is demonstrated through this course. Performance at OMEA Large Group contest as well as district concerts are an extension of the classroom and are required.

This class also provides the college-bound music student a head start on preparation for college auditions and entrance exams.

Students must complete all of the requirements for the honors curriculum as listed in the honors packet which you can pick up from your director. Band members should note the requirements listed under instrumental music. A weighted grade is given for this course.

Prerequisite: Audition and recommendation from the director

Fee for supplies - \$15.00

1 credit or 1 honors credit

**MUSIC THEORY HONORS - 10, 11 and 12**

Students will learn the progression of music theory, analysis, and compositional techniques through a historical perspective.

Students will learn to play basic to advanced piano based on their entry-level skills to this class, including melodies, scales, and chords. Students will improve their music reading skills, learn how to compose and arrange music, analyze music, and learn about different styles of music through a historical perspective. This course is recommended for any students planning on studying music at the college level. A weighted grade is given for this course

Prerequisite: One year of HS level performing ensemble (previous or existing) and teacher recommendation

1 credit

## POLARIS PARTNERSHIP

<b>PROJECT LEAD THE WAY PATHWAYS</b>			
Program	Grade Level	Program Courses	Potential College Credit opportunities (students must follow specific guidelines for each option)
<b>Engineering</b>	9, 10, 11, and 12	4 courses	Complete four courses and earn up to 16 college credits (12 CTAG credits. 4 Tri-C credits. 3 Kent State credits.)
<b>Biomedical Science</b>	9, 10, 11, and 12	4 courses	Must complete four courses to earn a potential eight college credits

### BIOMEDICAL SCIENCE - PROJECT LEAD THE WAY

**PRINCIPLES OF BIOMEDICAL SCIENCE (PBS) - 9, 10, 11 and 12**

This introductory course to the PLTW Biomedical Science program serves to provide foundational knowledge and skills in fields such as biology, anatomy and physiology, genetics, microbiology, and epidemiology, as well as engage students in how they can apply this content to real-world situations, cases, and problems such as solving a medical mystery case, diagnosing and treating a patient, or responding to a medical outbreak. PBS is open to 9-10 grade students. Students in 11th and 12th grade need permission from the instructor and school counselor.

1 credit

**HUMAN BODY SYSTEMS (HBS) - 9, 10, 11 and 12**

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex, and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. Human Body Systems is open to 10th-grade students with a prerequisite of PBS or having passed biology with a C average. Students in 9th, 11th, and 12th grade need permission from the instructor.

1 credit

**MEDICAL INTERVENTIONS (MI) - 10, 11 and 12**

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options, and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. MI is open to 10-12 grade students with a prerequisite of 1 previous PLTW Biomed course passed with a C average.

1 credit

**BIOMEDICAL INNOVATION (BI) - 11 and 12**

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent project with a mentor or advisor from a university, medical facility, or research institution. BI is open to 11-12 grade students with a prerequisite of 2 previous PLTW Biomed courses passed with a C average.

1 credit

**PLTW HONORS CREDIT OPTION**

The PLTW honors course option is designed to provide students with an enhanced and enriched learning experience. The PLTW honors course curriculum is extended beyond the core student learning outcomes. Honors credit places additional emphasis on independent study, critical thinking, and student research. Students enrolled in the honors credit option will be required to complete additional activities outlined in each course. See the instructor for specific honors criteria and requirements. PLTW Honors courses will be given weighted grades.

**ENGINEERING - PROJECT LEAD THE WAY (PLTW)****INTRODUCTION OF ENGINEERING DESIGN (IED) - 9, 10, 11 and 12**

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and use an engineering notebook to document their work. IED is open to students in 9th-10th grade. Students in the 11th and 12th grades need permission from their instructor and school counselor.

1 credit

**PRINCIPLES OF ENGINEERING (POE) - 10, 11 and 12**

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem-solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. POE is open to students in 10th-12th grade. Students in 9th grade need permission from the instructor and school counselor. Successful completion of Algebra I recommended.

1 credit

**CIVIL ENGINEERING and ARCHITECTURE (CEA) - 10, 11, 12**

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3-D architectural design software. CEA is open to students in 10th- 12th grade. Students must have taken IED and earned a passing grade. Students in 9th grade may enroll with permission from their instructor and school counselor.

1 credit

**ENGINEERING DESIGN and DEVELOPMENT (EDD) - 11, 12**

The knowledge and skills students acquire throughout PLTW Engineering come together in Engineering Design and Development as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing Engineering Design and Development ready to take on any post-secondary program or career. EDD is open to students in 11th and 12th grade. Students must have taken IED and earned a passing grade. Tenth grade students may enroll with permission from their instructor and school counselor.

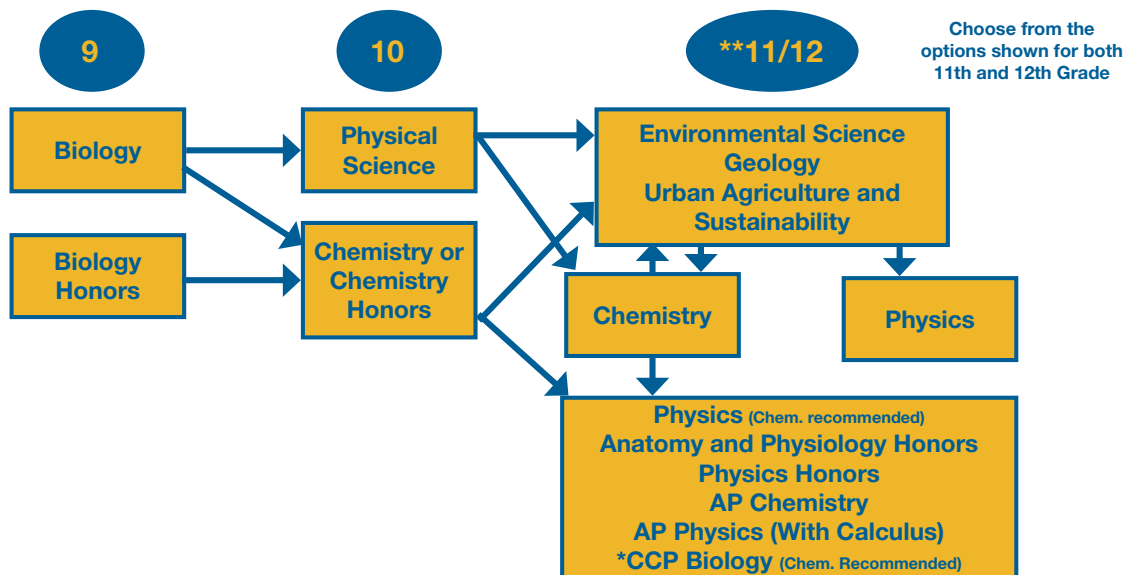
1 credit

**PLTW HONORS CREDIT OPTION**

The PLTW honors course option is designed to provide students with an enhanced and enriched learning experience. The PLTW honors course curriculum is extended beyond the core student learning outcomes. Honors credit places additional emphasis on independent study, critical thinking, and student research. Students enrolled in the honors credit option will be required to complete additional activities outlined in each course. See the instructor for specific honors criteria and requirements. PLTW Honors courses will be given weighted grades.

## SCIENCE

### Typical Sequences of Science Classes



\*This course is a college-level course and students who enroll in this course typically have completed Biology and Chemistry prior to enrollment.

\*\*Students may choose one or two courses EACH year from the list during grades 11 and 12. Some courses may have prerequisites or co-requisites; check the class descriptions.

#### BIOLOGY- 9

This course satisfies the Ohio Core science graduation requirements. The course investigates the composition, diversity, complexity, and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment, and the interactions within and between them. Students engage in investigations to understand and explain the behavior of living things in a variety of scenarios that incorporate scientific reasoning, analysis, communication skills, and real-world applications. The course includes a significant laboratory component and students are introduced to safe laboratory practices. Students will take a state Biology End-of-Course Exam.

Fee required - \$20.00 1 credit

#### BIOLOGY HONORS- 9

This course satisfies the Ohio Core science graduation requirements. Biology is the study of living organisms that include topics in cell biology, genetics, ecology, evolution, physiology, and the scientific process. This course will emphasize higher-order thinking skills, online activities, laboratory investigations, independent research, collaborative learning projects, problem-solving activities, and bioethical discussions. Honors Biology will prepare students for future honors and advanced level (AP) science classes. The expectation is that students will study for Honors Biology in greater depth, at a more rapid pace, and with more opportunity for inquiry-based labs and activities than in the regular Biology sections. The course requirements are rigorous; therefore, students are expected to process the learning beyond simple rote memorization. The course includes a summer project that is due at the beginning of the school year. There is an expectation in the course that students will work independently with assignments and content outside of the classroom. A weighted grade is given for this course. Students will take the Biology End of Course Exam, required by the state of Ohio, for this course.

Prerequisites: Algebra I and science teacher recommendation Honors Course

Fee required: \$20.00 1 credit

#### PHYSICAL SCIENCE- 10

Students in Physical Science master the skills necessary to succeed in all upper-level science classes, including Chemistry and Physics. This course provides the student with experience in laboratory procedures and safety. Students strengthen their math skills while designing and conducting scientific investigations. Emphasis is placed on the study of matter, energy, and motion. Historical perspectives and emerging issues in science are also covered.

Fee required - \$20.00 1 credit

**CHEMISTRY - 10, 11 and 12**

This is a traditional high-school chemistry course designed for college-bound students. This course is designed to present not only general concepts of chemistry but analytical problem-solving techniques. The student will, through classroom discussion, algebraic techniques, experimentation, demonstration, and computer technology, develop those skills necessary to scientifically interpret and analyze information. Safety in the lab and science writing skills will be emphasized. Topics to be covered in this course include: data collection, atomic theory, periodic trends, bonding and intermolecular forces, chemical formulas and reactions, stoichiometry gas laws, acid-base and solution chemistry, and thermochemistry.

Prerequisite: Biology or Biology Honors

Fee required - \$20.00 1 credit

**CHEMISTRY HONORS - 10 and 11**

Honors Chemistry is a more rigorous high-school level chemistry course. This course presents general chemistry topics in more depth, and at a faster pace, than the traditional chemistry course. Due to this course's heavy math component students are expected to excel in algebra and mathematical problem-solving. Analytical problem-solving techniques will be enhanced in this course (as described in the regular chemistry curriculum). In addition, students will be expected to apply high-level scientific logic to frequent laboratory experiments and activities that complement theory. Safety in the lab and scientific writing skills will be heavily emphasized. Topics to be covered in this course include atomic theory, periodic trends, bonding and intermolecular forces, chemical formulas and reactions, stoichiometry, gas laws, acid-base and solution chemistry, and thermochemistry. The core of this course is a college preparatory course, and its rigor will reflect a movement towards AP or college-level work. Students must have a willingness to self-study and work outside the classroom. A weighted grade is given for this course.

Prerequisite: Biology or Honors Biology & Teacher Recommendation

Fee required - \$20.00 1 credit

**PRINCIPLES OF BIOLOGY I and II CCP (LCCC BIOG 161/162)**

These classes are college-level classes. The courses are designed for science majors and focus on the principles of biology recommended for science majors. Topics for semester 1 include basic chemistry, the cell, metabolism, photosynthesis, genetics, and evolution. Semester 2 emphasizes a taxonomic survey of the kingdoms, as well as a study of animal and plant anatomy, and physiology, and ecology. A considerable writing component is present. Laboratories are included with the class.

A weighted grade is given for this course.

Prerequisite: College Placement Test Recommended: Successful completion of high school Biology and Chemistry.

1 high school credit for each semester 4 college credits for each course

**URBAN AGRICULTURE AND SUSTAINABILITY - 11 and 12**

This course is an inquiry-based experience that will provide students with a basic understanding of urban agriculture and sustainability through hands-on and project-based learning experiences. This course is primarily student-led and requires a passion for the subject and investment from the student. The garden environment will act as the primary classroom for this course as often as possible. In addition to lifelong skills, students will navigate through student-led and teacher-supported units that will highlight the importance of sustainability and careers using urban agriculture as the driving theme. Students will troubleshoot obstacles they encounter through collaboration and critical thinking to develop proactive and reactive courses of action. They will also support one another by educating themselves and their peers on how to overcome the challenges they encounter. Students will have the opportunity to share their successes with the school and community. They will be exposed to higher level skills including the process of grant writing to secure funding for their project ideas. Assessments will be predominantly project-based.

Prerequisite: Biology or Honors Biology and Physical Science or Chemistry

Fee required \$20.00 1 credit

**ENVIRONMENTAL SCIENCE - 11 and 12**

Environmental Science consists of an inquiry-based experience that engages students in asking valid scientific questions and gathering and analyzing information. Environmental science incorporates biology, chemistry, and physical geology and introduces students to key concepts, principles, and theories within environmental science. Investigations are used to understand and explain the behavior of nature in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills, and real-world applications. Assessment is predominantly project-based, requiring students to do independent and group research on current environmental issues and to present their research to the classroom community through a variety of methods. The final exam for this course includes an action project that entails service hours outside of the classroom and these hours and the project must be completed by the end of the course.

Prerequisite: Biology and Physical Science or Chemistry

Fee required: \$20.00 1 credit

## **PHYSICS - 11 and 12**

Physics is an algebra-based course that explores the physical phenomenon of our everyday world both conceptually and mathematically. An emphasis will be placed on problem-solving, critical and creative thinking, and collaboration. A good background in mathematics, especially Algebra I and Geometry, is essential. Topics covered in this class include scientific inquiry, motion in one and two dimensions, forces, energy, electricity, and waves. This course will provide college-bound students with a foundation in physics principles and concepts that will be useful in future college coursework.

Requirement: Concurrently enrolled in Algebra II or higher level math Recommended: Prior enrollment in Chemistry or Chemistry Honors

Fee required - \$20.00 1 credit

## **PHYSICS HONORS - 11 and 12**

This fast-paced math intensive algebra-based course provides students with an engaging honors-level curriculum that emphasizes problem solving, critical thinking and applications of physics concepts to real-world scenarios. Students will participate in a variety of interactive and hands-on laboratory activities that will enhance conceptual knowledge and develop scientific processing skills. Course components include one- and two-dimensional motion, momentum, energy, rotation, oscillations, waves and electricity. Topics are examined in greater detail than general physics and provide a solid foundation for collegiate-level coursework (including AP Physics C). A graphing calculator is recommended.

Prerequisite: Algebra II and Chemistry or Chemistry Honors(A/B average) & Teacher Recommendation

Fee required - \$20.00 1 credit

## **ANATOMY AND PHYSIOLOGY HONORS - 11 and 12**

Anatomy and Physiology is a course of the anatomical and physiological systems of humans. This course is designed for students interested in health occupations and in how the body works. The student explores basic tissue types and the structure and function of the body systems: integumentary, skeletal, muscular, nervous, cardiovascular, respiratory, digestive, urinary, endocrine, and lymphatic. A basic understanding of biology and chemistry concepts is required as it will be applied to the study of physiology. Physiology labs, dissections labs, and practicals are required for this course. Goggles are required. A weighted grade is given for this course.

Prerequisite: Biology and Chemistry with a 3.0 GPA or better in both courses & Teacher Recommendation

Fee required -\$20.00 1 credit

## **GEOLOGY - 11 and 12**

Geology is an in-depth study of the origin of rocks, landforms, and the internal structure of the Earth. Students will identify minerals, rocks, and fossils common in Ohio. Students will learn to read topographic maps and understand the major events of the geologic time scale. Emphasis is placed on Ohio's fascinating geological history and how our geologic past impacts us today. Some math is applied to situations involving basic chemistry.

Prerequisites: Chemistry or Physical Science and Geometry

Fee required - \$20.00 1 credit

## **AP CHEMISTRY - 11 and 12**

The AP Chemistry course may enable students to earn college credit. The advanced placement chemistry course is a college-level chemistry course. The course is intended to emphasize and elaborate on concepts covered in first-year high school chemistry (See the list of topics under chemistry honors) and cover the additional topics of equilibrium, kinetics, advanced thermochemistry and electrochemistry. A strong emphasis will be placed on laboratory work. In addition, this class will require **HARD WORK and DEDICATION**. Students enrolling in this course must have a solid background in mathematics and have successfully completed the first-year high school chemistry course. This course requires mastery of content previously taught in chemistry or chemistry honors. This information will not explicitly be retaught as part of this course. A weighted grade is given for this course. This may be offered as an Early Bird class.

Prerequisites: Chemistry or Chemistry Honors and Algebra II or concurrently in Algebra II & Teacher recommendation

Fee required - \$20.00 AP exam fee (approximate) - \$98.00 1.5 credits (includes lab)

## **AP PHYSICS - 12**

The AP Physics course may enable students to earn college credit. AP Physics: Mechanics is a nationally recognized calculus-based course in physics. The syllabus for this course is designed by the AP College Board. This course is equivalent to a pre-engineering/science major introductory physics course for university students. The emphasis of this course will be the utilization of physics concepts and critical thinking to solve and understand complex physics problems. This course requires and utilizes a basic understanding of integral and differential calculus. Students must have completed or be concurrently enrolled in AP Calculus when taking this course. Laboratory work is an integral part of this course. Each week, over 20% of instructional time will be spent in laboratory experiences, designing labs, and collecting, analyzing and communicating data. A graphing calculator is recommended. A weighted grade is given for this course.

**This class may be offered as an Early Bird Class.**

Prerequisite: Completion of Chemistry or Chemistry Honors & Teacher recommendation

Recommended: Prior enrollment in Physics or Physics Honors

Math Requirement: Students must be concurrently enrolled in AP Calculus AB or already completed it when taking this course.

Fee required - \$20.00 AP exam fee (approximate) - \$98.00 1.5 credits (includes lab)



SOCIAL STUDIES

GRADE 9	GRADE 10	GRADE 11	Grade 12
World History*	US History* or AP United States History or US History CCP	Government* or AP Government and Electives	AP European History or AP Psychology or Electives:
World History Honors	US History* or AP US History or US History CCP	Government* or AP Government and Electives	AP European History or AP Psychology or Electives:
	American Wars (Semester) Comparative African-American Studies (Semester) Current Issues (Semester) History of the 1960's (Semester) Macroeconomics (Semester) Microeconomics (Semester) Psychology (Semester) Sociology (Semester)	AP Psychology (Full year)	
		AP European History (Full year)	
		AP Government (Full year)	
		Psychology (Semester)	
		Comparative African-American Studies (Semester)	
		Current Issues (Semester)	
		History of the 1960s (Semester)	
		Microeconomics (Semester)	
		Macroeconomics (Semester)	
		American Wars (Semester)	
		Sociology (Semester)	
		Rock & Roll and the American Culture (Semester)	

\*Required course (unless a qualifying alternative is taken)

**WORLD HISTORY - 9**

This course explores world history from the Age of Absolutism to post-WWII. Units include but are not limited to: the Scientific Revolution, Enlightenment, French Revolution, Industrialization, Imperialism, Nationalism, World Wars I and II.  
1 credit

**WORLD HISTORY HONORS - 9**

This course explores world history from 1600 to the present, with greater emphasis on the examination and analysis of multiple primary and secondary documents and advanced historical writing skills. This course is intended to prepare students for advanced sophomore, junior, and senior social studies classes. A weighted grade is given for this course.  
Prerequisite: Successful completion of history course in the previous school year.  
1 credit

**AP UNITED STATES HISTORY (APUSH) - 10, 11, 12**

The AP United States History (APUSH) course may enable students to earn college credit. APUSH is designed to be the equivalent of a two-semester introductory college or university U.S. history course. In APUSH students investigate significant events, individuals, developments, and processes from approximately 1491 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity, and change over time. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society. APUSH is the most challenging US History course offered, and students will be expected to work at an accelerated pace. (Successful completion of this course satisfies the requirement for the 10th grade United States History course.) A weighted grade is given for this course.  
1 credit  
AP Test fee is approximately \$98.00

## **UNITED STATES HISTORY I & II CCP (LCCC HSTR 161/162) - 9-12**

CCPUSH is taught in conjunction with Lorain County Community College (LCCC) and students who complete this class will earn both high school and college credit. CCPUSH is two-semester classes that align with LCCC's Hist 161 and Hist 162. In the first semester, students will cover colonization through 1877. In the second semester, students will cover Reconstruction through to the 21st century. In addition to historical thinking skills, students will study in-depth certain primary sources. This is classified as a lecture course by LCCC, and much of the instructional format will be in that style, but not all. A weighted grade is given for this course.

Prerequisite: \*Students MUST qualify for CCP US History through admission to LCCC.

1 high school credit per semester

3 college credits per course

## **UNITED STATES HISTORY - 10**

This required course covers U.S. History from 1877 to the present. Events and topics discussed will include the Industrial Revolution, Progressivism, the Great Depression, World Wars I and II, the Cold War, the Korean War, the Vietnam War, and the Gulf War. International political issues from the Marshall Plan to the post-communist world will also be studied. Cultural facets of American history including the rise of Rock-n-Roll, television, and the counterculture movement will be included. Students will take the American History End of Course Exam, required by the state of Ohio, for this course.

1 credit

## **AP GOVERNMENT AND POLITICS - 11 and 12\***

The AP U.S. Government and Politics course may enable students to earn college credit. This course involves the study of democratic ideals, the balance of powers, and tension between the practical and ideal in national policymaking. Students analyze and discuss the importance of various constitutional principles, rights and procedures, institutions, and political processes that impact us as citizens. This course covers the following topics: Constitutional Underpinnings of United States Government, Political Beliefs and Behaviors, Political Parties, Interest Groups, and Mass Media, Institutions of National Government: The Congress, the Presidency, the Bureaucracy, and the Federal Courts, Public Policy, and Civil Rights and Civil Liberties.

A weighted grade is given for this course.

This course will deal with current events and a service-learning component will be required.

\*This course satisfies the requirement for a government course at OFHS.

1 credit – full-year course

AP Test fee is approximately: \$98.00

## **GOVERNMENT AND LAW - 11 and 12**

This required course for juniors and seniors examines the modern U.S. government with a particular focus on legislative, executive, and judicial branches of the federal government, elections, lawmaking, and the functions of the federal bureaucracy. The course will also address related topics in the American justice/legal system. Students will take the Government End of Course Exam, required by the state of Ohio, for this course.

½ credit – semester course

## **AMERICAN WARS - 10, 11, and 12**

This elective course will involve an in-depth examination of four major American conflicts: the Revolutionary War, the Civil War, World War I, and World War II. Students will examine political, social, and economic history related to the wars, including the immediate and lasting effects of the wars. The wars are also compared with other conflicts, such as those in Korea and Vietnam.

½ credit – semester course

## **COMPARATIVE AFRICAN-AMERICAN STUDIES - 10, 11, 12**

This elective class addresses selected topics in African-American history, including, but not limited to: Africa as a place of origin for African Americans; forced and voluntary migration of Africans and African Americans; African-American communities that have fostered advancement and have combated the effects of inequality; and cultural movements of the 20th century, including the confluence of music, art, dance, and poetry contained in ragtime, jazz, blues, funk, and hip hop that place African-American creativity at the center of American cultural experiences.

½ credit - semester course

## **MICROECONOMICS - 10, 11, and 12**

This class covers sophisticated concepts of Microeconomics. Content includes, but is not limited to, individual, social, and private-sector decisions; supply, demand, and market price; business firms in the economy, market structures, and the stock market.

½ credit – semester course



**MACROECONOMICS - 10, 11, and 12**

This class addresses complex macroeconomic concepts. Content includes, but is not limited to, measurements of aggregate production, unemployment, and inflation; the role of money in an economy; monetary policy; fiscal policy; and international trade in the global market.

Prerequisite: Microeconomics or permission of the department chair

½ credit - semester course

**AP EUROPEAN HISTORY - 11 and 12**

The AP European History course may enable students to earn college credit. The Advanced Placement European History class is a college-level course taught to juniors and seniors (and sophomores upon request and with approval). The class is specifically designed for the aggressive performer. It examines the political, social, economic, artistic, intellectual, and religious history in Europe between 1300 and the present.

A weighted grade is given for this course.

Fee required AP Exam fee (approximate) \$98.00

1 credit

**AP PSYCHOLOGY - 11 and 12**

The AP Psychology Course may enable students to earn college credit. The Advanced Placement Psychology class is a college-level course taught to juniors and seniors. The class is specifically designed for the aggressive performer. It examines the same general topic areas as the semester-long Psychology course (see description below), but is a year-long, broader version of that course that also adds topics in Human Development, Personality, Stress/Health, and Therapy. There are NO prerequisites for this course. A weighted grade is given for this course.

Fee required AP Exam fee (approximate) \$98.00

1 credit

**PSYCHOLOGY - 10, 11 and 12**

Psychology is a college-preparatory course, which seeks to provide a general overview of the topics one would cover in an introductory college psychology course. General topic areas include Introduction to Psychology, Experimental Design, The Brain, Sensation/Perception, Sleep/Dreams, Learning and Memory, Abnormal Psychology and Social Psychology.

½ credit – semester course

**CURRENT ISSUES - 10, 11 and 12**

This course introduces students to various issues facing the world today. Students will delve into social, political, and economic problems happening in the world as they explore global economic systems, human rights, world health, environmental issues, and the role of the United States in a changing world. The class is designed to help students understand the complexity and nuances of many issues, and evaluate multiple perspectives on these issues. Additionally, students will evaluate solutions and perhaps propose solutions. Specific topics to explore will be developed in conjunction with the students according to their interests and needs.

½ credit – semester course

**HISTORY OF THE 1960's - 10, 11, and 12**

This course covers the major political, social, cultural, and economic events of the turbulent period known as the 60's. This will include an examination of the Civil Rights Movement, the Vietnam War, and the Counterculture. It will also include a study of the music of the 60s, as well as other cultural phenomena.

½ credit – semester course

**SOCIOLOGY - 10, 11, and 12**

Sociology is a college-preparatory course that focuses on both past and current societal issues. Students pick the topics that we will cover at the beginning of the semester. The potential topics are Culture and Social Structure, Child and Adolescent Development, Crime and Deviance, Social Class and Poverty, Racism/Discrimination/Prejudice, and Racial/Ethnic Relations, Collective Behavior, Sports, Multimedia, and Social Movements.

½ credit – semester course

**ROCK & ROLL AND THE AMERICAN CULTURE - 11 and 12**

This class is about how events in our American culture in the 20th and now 21st centuries can be viewed, examined, and explained in rock and roll music, both in style and lyrically. Culture-changing events will be examined ranging all the way from racism expressed in the blues of the 1920s, through social activism in the 1960s, the MTV generation of the 1980s, to the “download generation” of today. Ties will be drawn between the historical events of various time periods, and how those events are explained in music.

½ credit - semester course

WORLD LANGUAGES

French Course Offerings and Sequence

	9th Grade	10th Grade	11th Grade	12th Grade
Students that successfully complete French I in Middle School:	French II or French II Honors (Prerequisite: above-average grades)	French II Honors or French III Honors	CCP Intermediate French I/II	2 semesters of CCP level French (Prerequisite: Successful completion of the 4th year of French with above-average grades)
Students starting French in 9th Grade:	French I	French II or French II Honors	French III Honors	CCP Intermediate French I/II
Students starting French in 10th Grade:		French I	French II or French II Honors	French III Honors
Students starting French in 11th Grade:			French I	French II or French II Honors
Students starting French in 12th Grade:				French I

**FRENCH I- 9, 10, 11 and 12**

In this course the student will develop the four fundamental skills of French: speaking, listening, reading and writing. In this enhanced program the material in the student text is supplemented with audio\video materials as well as a student activity book. The student will learn basic French language patterns and vocabulary in authentic cultural settings.

1 credit

**FRENCH II/FRENCH II HONORS - 10, 11 and 12**

In this course, the student will advance the skills learned in French I. The student will have the opportunity to also read authentic French materials and express themselves about daily topics in written and oral formats.

This Honors path will explore concepts with greater scope and depth. Students who take the class for honors credit will be required to expand on topics. Additional course requirements will apply. Students who opt to take French II Honors will receive a weighted grade for the course. Students who participate in the honors track should have received above-average grades in French I.

Prerequisite: Successful completion of French I

1 credit

**FRENCH III HONORS - 10, 11 and 12**

The French III Honors course further develops a student’s communication skills in the areas of reading, writing, speaking, and understanding the French language. Longer readings in French, as well as more involved writing assignments, are included. A variety of cultural experiences will be offered for enrichment. A weighted grade is given for this course.

Prerequisite: Successful completion of French II/French II Honors with above-average grades

1 credit

**CCP INTERMEDIATE FRENCH I/II (FRNH 251G/252G) - 11 and 12**

This course is offered to students who are in the 4th year of French language study. It is designed to allow students to build upon the knowledge they have acquired of French grammar, to increase their vocabulary, and to study in greater depth the experience and accomplishments of the people who have impacted the Francophone world. This course will review the fundamentals of the language and introduce more complex grammatical structures and communicative skills. Both semesters will have a balanced emphasis on speaking, listening, reading, and writing. In addition, students will explore the civilization, culture, and customs of the French-speaking world. Research projects will be required outside of class activities.

It is strongly recommended that the letter grade of “A” or “B” is earned in French III Honors PRIOR to registering for this class. A weighted grade is given for this course. Upon successful completion of this course, students will increase their reading, writing, listening, and speaking capabilities to the intermediate high or the advanced low-level proficiency (based on the ACTFL scale). A passing grade of C or higher in this sequence is equivalent to one year or 2 full semesters of college-level French.

Students who successfully complete this class with a C or higher will receive 3 credits each semester from LCCC. This course is also designed to prepare students wishing to pursue a major or minor in the French language at the college level. A weighted grade is given for these courses.

1 high school credit

6 college credits

**FRENCH COMPOSITION CCP LCCC (FRNH 293G) (Semester 1) - 12**

A course in French composition with a focus on the mastery of syntax and spelling, and the improvement of writing skills through the study of various rhetorical modes and writing for special purposes. Conducted in French. Prerequisites: CCP Intermediate French II (FRNH 252) or division approval. This class will be offered in the first semester. A weighted grade is given for this course.

1 high school credit  
3 college credits

**FRENCH CONVERSATION CCP LCCC (FRNH 294G) (Semester 2) - 12**

This course focuses on the development of speaking and listening skills and strategies, working from intermediate toward an advanced level of proficiency. Emphasis on vocabulary acquisition and usage. Prerequisites: CCP French Composition (FRNH 293G) or division approval. This class will be offered in the second semester. A weighted grade is given for this course.

1 high school credit  
3 college credits

**Spanish Course Offerings and Sequence**

	9th Grade	10th Grade	11th Grade	12th Grade
Students that successfully complete Spanish I in Middle School:	Spanish II or Spanish II Honors	Spanish II or Spanish III Honors	1st Semester: EITHER Spanish IV Honors or CCP Intermediate Spanish 1. 2nd Semester: EITHER CCP Intermediate 1 or 2	2 semesters of CCP level Spanish
Students starting Spanish in 9th Grade:	Spanish I	Spanish II or Spanish II Honors	Spanish III Honors	1st Semester: EITHER Spanish IV Honors or CCP Intermediate Spanish 1. 2nd Semester: EITHER CCP Intermediate 1 or 2
Students starting Spanish in 10th Grade:		Spanish I	Spanish II or Spanish II Honors	Spanish III Honors
Students starting Spanish in 11th Grade:			Spanish I	Spanish II
Students starting Spanish in 12th Grade:				Spanish I

\*Course offerings TBD for both sections for the 4th year of study.

**SPANISH I - 9, 10, 11 and 12**

This is an introductory course. Pronunciation, reading, writing, and conversational skills are stressed. Fundamental grammar, patterns, and cultural appreciation are also an integral part of the course. A strong foundational understanding of basic English grammatical structures is essential for the successful completion of this course. This program includes video, audio, online, and take-home support to enhance learning.

1 credit

**SPANISH II - 9, 10, 11 and 12**

Students in this course have successfully completed Spanish I with a passing grade. Students will complete a review of concepts presented in Spanish I and will then build on concepts from Spanish I with expansion in the present and past tenses, foundational grammar, and vocabulary. Course fluency development in reading, writing, speaking, and listening are intensified. This program includes video, audio, online, and take-home support to enhance learning. Students who complete this course will need to take Spanish II Honors in order to move to Spanish III Honors.

Prerequisite: Successful completion of Spanish I

1 credit

## **SPANISH II HONORS - 9, 10, 11 and 12**

This course will be taught at a more rigorous pace than Spanish II and will explore concepts with greater scope and depth. Students who participate in this class should have received above-average grades in Spanish I. Students will build on concepts from Spanish I with expansion in the present and past tenses, foundational grammar, and vocabulary. Course fluency development in reading, writing, speaking, and listening are intensified. This program includes video, audio, online, and take-home support to enhance learning. Students will move to Spanish III Honors upon successful completion of this course.

A weighted grade is given for this course.

Prerequisite: Successful completion of Spanish I or Spanish II with above-average grades and teacher recommendation  
1 credit

## **SPANISH III HONORS - 10, 11 and 12**

This course follows the patterns established in Spanish II. More complex vocabulary and grammar will be introduced in this class. Conversation is a fundamental aspect of this course. Students will be expected to write essays with proper vocabulary and grammar usage. A stronger understanding of the culture will also be emphasized. Honors level students should possess an advanced reading ability and be willing to accept the challenge of academic rigor, including out-of-class research and assignments. A weighted grade is given for this course.

Prerequisite: Successful completion of Spanish II Honors with above-average grades and teacher recommendation  
1 credit

## **SEMESTER 1 - SPANISH IV HONORS - 11 and 12**

This one-semester course is designed to prepare students for college-level Spanish and is a continuation of the previous year. This course follows the patterns established in Spanish II. More complex vocabulary and grammar will be introduced in this class. Conversation is a fundamental aspect of this course. Students will be expected to write essays with proper vocabulary and grammar usage. A stronger understanding of the culture will also be emphasized. Honors level students should possess an advanced reading ability and be willing to accept the challenge of academic rigor, including out-of-class research and assignments. A weighted grade is given for this course.

Prerequisite: Successful completion of Spanish III with above-average grades and teacher recommendation  
1 credit

## **INTERMEDIATE SPANISH CCP (LCCC SPNH 251G) - 11 and 12**

This course is designed to allow students to build upon the knowledge they have acquired of Spanish grammar, to increase their vocabulary, and to study in greater depth the experience and accomplishments of the people who have impacted Hispanic history and civilization. This course will review the fundamentals of the language and introduce more complex grammatical structures and communicative skills. Both semesters will have a balanced emphasis on speaking, listening, reading, and writing. In addition, students will explore the civilization, culture, and customs of the Spanish -speaking world. Research projects and interviews with native speakers will be required outside of class activities.

It is strongly recommended that the letter grade of "A" or "B" is earned in Spanish III Honors PRIOR to registering for this class. The course includes a summer project that is due at the beginning of the school year. A weighted grade is given for this course. Upon successful completion of this course, students will increase their reading, writing, listening, and speaking capabilities to the intermediate high or the advanced low-level proficiency (based on the ACTFL scale). A passing grade of C or higher in this sequence is equivalent to one year or 2 full semesters of college-level Spanish. Students who successfully complete this class with a C or higher will receive 3 credits from LCCC. This course is also designed to prepare students wishing to pursue a major or minor in the Spanish language at the college level.

1 high school credit  
3 college credits

**INTERMEDIATE SPANISH II CCP (LCCC-SPNH 252G) - 11 and 12**

This course builds on the content and instruction presented in Intermediate Spanish I CCP. It is designed to allow students to build upon the knowledge they have acquired of Spanish grammar, to increase their vocabulary and to study in greater depth the experience and accomplishments of the people who have impacted Hispanic history and civilization. This course will review the fundamentals of the language and introduce more complex grammatical structures and communicative skills. Both semesters will have a balanced emphasis on speaking, listening, reading and writing. In addition, students will explore the civilization, culture and customs of the Spanish -speaking world. Research projects and interviews with native speakers will be required outside of class activities. A weighted grade is given for this course.

1 high school credit

3 college credits

**SPANISH COMPOSITION CCP (LCCC SPNH 257G) (Semester 1)**

A course in Spanish composition with a focus on the mastery of syntax and spelling, and the improvement of writing skills through the study of various rhetorical modes and writing for special purposes. Conducted in Spanish. Prerequisites: SPNH 252 or division approval. This class will be offered in the first semester. A weighted grade is given for this course.

1 high school credit

3 college credits

**SPANISH CONVERSATION CCP (LCCC SPAN 258G) (Semester 2)**

Development of speaking and listening skills and strategies, working from intermediate toward an advanced level of proficiency. Emphasis on vocabulary acquisition and usage. Prerequisites: SPNH 252 or division approval. This class will be offered in the second semester. A weighted grade is given for this course.

1 high school credit

3 college credits

Students will be registered in this course based on prior CCP performance.

A weighted grade is given for this course. Upon successful completion of this course, students will increase their reading, writing, listening, and speaking capabilities to the advanced low or advanced mid-level proficiency (based on the ACTFL scale). A passing grade of C or higher in both SPANISH COMPOSITION CCP 257G and SPANISH CONVERSATION CCP 258G is equivalent to one year or 2 full semesters of college-level Spanish. Students who successfully complete both classes with a C or higher will receive 6 credits from LCCC. This course is also designed to prepare students wishing to pursue a major or minor in the Spanish language at the college level.

1 High School credit each semester and 3 credits each semester (6 total) from LCCC.

## ADDITIONAL EDUCATIONAL OPTIONS

### CREDIT FLEXIBILITY

Students may gain credit for graduation by pursuing one or more options in accordance with the Olmsted Falls Credit Flexibility Program. These guidelines can be obtained from your school counselor.

### CAREER TECHNICAL PROGRAMMING AT POLARIS

Polaris offers a wide range of exciting career-technical programs for students beginning in 11th grade, all featuring high-quality training in a state-of-the-art setting. Many Polaris programs provide you access to industry certifications which open the door to employment. In addition, you can begin earning free or reduced-cost college credit before you ever step foot on a college campus – saving you time and money! After graduation, you can go directly into the job market or capitalize on those college credits by continuing your education at a two- or four-year college/university.

Often talented students overlook a career technical program during their high school years because they believe that, since they are planning to go to college, they need to be on an exclusively “college prep” academic track. While this may have been true a generation ago, it is no longer true today. Many college prep students have found that rigorous career-technical programs actually enhance their college preparation rather than compete with it. These are students who are typically more focused than their peers because they:

- Possess a career direction and a vision of their lives beyond just today.
- Have planned with their counselors how to fit academics and career-tech into four years of high school.
- Have developed good time management skills.
- Possess the social and emotional maturity that allows them to take a risk on a new experience.

Specific information on any of the Polaris programs such as prerequisites and program requirements can be obtained by contacting your student’s school counselor or at [www.polaris.edu](http://www.polaris.edu).

- Students who select to attend Polaris are making a commitment to attend Polaris for a minimum of one semester. Students will not be able to drop a vocational program unless extenuating circumstances exist.
- Although Olmsted Falls High School students attending Polaris do not pay tuition, most programs require student fees. Payment plans can be established through the Polaris treasurer’s office. No student will be denied access to a vocational education due to financial limitations.

### GENERAL POLARIS INFORMATION

#### Registration/Enrollment

Our application process has never been easier. You can now register at [polaris.edu](http://polaris.edu). The application only takes a few minutes to complete.

Contact the Polaris Enrollment Office at 440.891.7732 with additional enrollment-related questions.

#### Student Fees

There is no tuition cost to attend Polaris. However, all programs will require fees to cover the cost of tools, uniforms, workbooks, etc. Payment plans are available.

#### Transportation

Busing to and from Polaris is provided by your school district. A Polaris parking permit must be obtained if you plan to drive to school.

## POLARIS COURSE PROGRAMMING

**Aeronautics**

Your career opportunities will soar as you explore the exciting field of aviation with a focus on aeronautical studies, aeronautical systems engineering technology, air traffic control, aviation management, flight technology, and drone operations.

**Automotive Technology**

Using the latest equipment, you will learn to maintain, diagnose and service automobiles with an emphasis on the brake and electrical systems, engine performance systems, transmissions, suspensions, alignments, engine repair, and automotive heating and cooling.

**Baking & Pastry Arts**

You will learn the art of producing quality bakery products with an emphasis on decorative pastry arts. From bread production to chocolates and candies you will learn the ABCs of food and food preparation. These skills will be developed and refined in the class-managed bakery, Indulge.

**Business Professional & Office Technology**

Skilled office professionals are in demand. In this program, you will learn the latest office management skills, become proficient in Microsoft Office, computer operations, business communications, Internet research, accounting, and customer service.

**Computer Networking Academy**

The Computer Networking Academy will open the door to the growing field of computer networking and information technology. This program will give you an opportunity to earn valuable industry certifications and college credits prior to graduating from high school.

**Construction Trades**

Construction Trades teaches you how to maintain, repair, construct and remodel buildings and homes in a real-world, practical setting. The program includes the fundamentals of blueprint reading, site preparation, carpentry, plumbing, wiring, roofing, and machining.

**Cosmetology**

Learn to care for hair, skin, and nails and create style and beauty in a student-run salon & spa setting. Join the Salon Allure staff and prepare for an exciting future.

**Criminal Justice**

Gain exposure to the latest in law enforcement techniques using high-tech equipment and instruction. During your two years at Polaris, you will be trained in the enforcement of the law and the protection of life and property in a real-world setting.

**Culinary Arts & Restaurant Management**

Explore basic culinary/cooking essentials and food service management skills in our state-of-the-art educational kitchen and production lab. You will apply your new talents in the class-managed restaurant, Savour, while learning customer relations, cost controls, basic accounting principles, marketing, purchasing, inventory, team-building skills, and communications.

**Dental Assisting**

Learn to work chair side with the dentist in the care and treatment of patients. Along with the basic dental laboratory procedures, you will learn dental terminology, the use of instruments and equipment, x-ray procedures, preparation of dental materials, and dental office management skills.

**Emergency Medical Technology/Fire Training**

If you like helping people, this is the program for you! Learn to be an Emergency Medical Technician, Firefighter or 911 Dispatcher. You will also learn the foundation of health science and homeland security. This program is offered in partnership with Cuyahoga Community College's Public Safety Training Center. Students must be 16 years old by August 1 to enroll in this program.

**Exercise Science & Rehab Therapy**

While in this program, you will learn the basics of preventing, diagnosing, and treating injuries related to sports and/or exercise. Exercise Science & Rehab Therapy is designed to prepare students to transition to college and pursue a career in the athletic training, fitness, or health care fields.



## Heating, Ventilating, Air Conditioning & Refrigeration

This cool profession is heating up! Join HVAC and learn to install, maintain, troubleshoot, and repair heating and cooling systems in both residential and commercial settings.

## Medical Professions

Learn the basic clinical and administrative procedures necessary to work in a doctor's office, clinic, or hospital. Coursework includes instruction in anatomy & physiology, medical ethics, medical terminology, office procedures, medical records, and laboratory skills.

## Pre-Veterinary Science

Learn to provide basic healthcare for animals including post-surgery care, emergency first aid, instrument maintenance, animal health histories, and more.

## Pre-Nursing

As a Pre-Nursing student, you will learn to monitor patients' conditions and assess their needs to provide the best possible care and support, observe and interpret patients' symptoms and communicate them to physicians; collaborate with physicians and nurses to devise individualized care plans for patients; perform routine procedures (blood pressure measurements, administering injections, etc.); and many other important responsibilities.

## Precision CNC Machining

Join this innovative, high-tech career and secure your future in a high-demand/high-wage profession. Feel the satisfaction of making your own components from concept to completion using state-of-the-art Computer Numerical Control (CNC) production technology and equipment.

## Welding Technology

This program will teach you the fundamentals of welding - the most common method of permanently joining metal parts. You will receive training in gas, arc, fluxcore, and MIG & TIG welding using cutting-edge technology.

## Special Admissions Programs– Counselor Recommended

Building Services & Grounds Maintenance, Deli & Food Production, and High School Job Training Programs include Employability Skills Lab, Community Work Experience, Retail Services, and Transition to Employment