

# Marion L. Steele High School



## Program of Studies 2020-2021

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Amherst Exempted Village School District  
[amherstk12.org](http://amherstk12.org)

**Dear Parents and Guardians...**

It is with great enthusiasm that I welcome you to the pages of the Marion L. Steele High School Program of Studies. The choices that your child makes, along with your help and guidance, will be building blocks for future educational pursuits and/or career opportunities.

Marion L. Steele High School offers a wide-range of curriculum and courses that are reviewed each year and are revised, when necessary, to meet up with the changing needs of students in our society.

Please review the entire list of offerings, not only concentrating on goals for this school year, but also thinking ahead to anticipate future endeavors, noting prerequisite classes that may apply.

The administration and staff of the Amherst Schools are committed to providing the best possible educational programs for students. Please feel free to contact your child's school counselor if you have questions regarding scheduling.

Best wishes for a GREAT year of learning!

Sincerely,  
**Steve Sayers**  
Superintendent

**Dear Students...**

Between the covers of this guide you will find the substance of the educational programs in Marion L. Steele High School. Please take the time to read the descriptions of our course selections carefully. As you outline the course plan that coincides with your post-graduation plans, discuss this information with your parents. If you need assistance in the process, your counselor will be very willing to work with you.

Please make sure you understand that the decisions you will make are very important. Although some schedule changes can be made before the end of the present school year, they will be extremely limited after that time.

Good luck as you work through the registration process.

Sincerely,  
**Joseph Tellier**  
Principal

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## About this Program of Studies

What's in your future? How long will you continue your formal education? Are you planning to conclude it at the end of twelfth grade, go on to a special career-oriented school or continue with academic work at the junior college/college level? Maybe you want to learn special skills through high school programs in the business department or at the vocational school. Now is the time for you to consider all these possibilities and plan accordingly.

This is your academic guide. Read it carefully to learn the requirements you need for graduation and to become aware of all the options available to you. Choose your courses carefully, keeping in mind YOUR career or educational plans. Be certain that your course selections help you reach your goals.

Your Program of Studies offers many kinds of information. It includes descriptions of required and elective courses for each grade, statement of graduation requirements, descriptions of course sequences and alternatives, and an explanation of the total program offered in the senior high school.

Careful thought and consideration should be given to the selection of challenging and rewarding courses for your high school years. Decisions about course selections are important due to their long-range effects on your future life. Decisions reached by you and your parents at the end of the course selection process will be considered a firm commitment with the school. Course changes in the fall of the school year will be discouraged. You should have alternative course selections in mind in case a described course is canceled because of low enrollment. Specific questions relating to program options or course selections should be directed to the teacher and/or school counselor.

## 2020 - 2021 Course Fees

Activity Fee	\$10.00
Advanced Biology	\$8.00
Advanced Chemistry	\$15.00
Advanced Physical Science	\$8.00
AP Biology	\$15.00 (+ AP test fee)
AP Chemistry	\$5.00 (+ AP test fee)
AP Calculus	\$85.00 (approximately)
AP English 11	\$85.00 (approximately)
AP English 12	\$85.00 (approximately)
AP European History	\$85.00 (approximately)
AP Government	\$85.00 (approximately)
AP Music Theory	\$85.00 (approximately)
AP Physics/Calculus	\$20.00 (+AP test fees)
AP Statistics	\$85.00 (approximately)
AP U.S. History	\$85.00 (approximately)
Art I	\$25.00
Art II	\$25.00
Art III	\$30.00
Art IV	\$30.00
Art V	\$30.00
AP - Studio Art	\$30.00 (+ AP test fee)
Biology 1	\$8.00
Biomimicry	\$10.00
Chemistry	\$15.00
Earth and the Environment	\$10.00
Forensic Science	\$10.00
Got Google?	\$10.00
Orchestra	\$5.00
Principles of Food & Textile Management	\$30.00
Culinary Fundamentals & Wellness	\$35.00
Pay to Participate	\$400.00
Physical Science	\$8.00
Physics 1	\$10.00
Physics 2	\$10.00
Practical Science	\$10.00

### Pay to Participate Policy

There will be a pay to participate fee, which must be paid in full by 3:30 p.m. on the following dates:

Fall Sports and Marching Band: **August 14, 2020**

Theatre: **October 2, 2020**

Winter Sports and Academic Team: **November 20, 2020**

Spring Sports: **March 4, 2021**

## Scheduling

Each February, Marion L. Steele High School students have an opportunity to select courses for the next school year. Grade level scheduling meetings are held, a Program of Studies guide with course offerings is presented and posted on the Marion L. Steele High School website, and individual scheduling conferences are available. In February, scheduling will begin for current Marion L. Steele High School students. Students are encouraged to consider their academic needs, future goals, and to involve their parents in the scheduling process. At a minimum, students must be enrolled in five credits per academic school year.

In the Spring, a master schedule is created from all student requests and individual schedules begin to evolve. In mid-May, students will be able to view their preliminary schedule for next year. Most schedule changes can be adjusted in May and June. In August, and beyond, schedule changes become extremely difficult due to supplies, books, classroom spaces and class size which have been arranged based on student selections. Therefore, schedule changes will be limited and completed for valid academic reasons only starting on the first day of classes in August.

## Which Courses Should I Take?

Various choices are open to the students attending Marion L. Steele High School which will help each student to prepare for his/her future plans. Such plans may include admission to a college or university, U.S. military options, vocational/technical programs or employment immediately after high school.

Interests do change and career goals are being formulated while you are in high school. There are many factors that contribute to success in high school. In many cases the type of course work you select is a better indicator of success than the grades you receive. Colleges, business schools, vocational/technical schools and potential employers will give the greatest weight to your high school course selections and the grades you receive. It is for this reason that a student who has attempted a more demanding course load but who has a lower grade point average (GPA) may be offered admission to a school or employment before a student with a higher grade point average in a weak course load.

We fully realize that you can graduate from high school with course work which is less demanding, but we recommend that each student should challenge himself or herself to go beyond the minimum requirements for graduation. Remember, the better your high school preparation, the better your chances are for success in your future plans.

### Marion L. Steele Counseling Staff

Mrs. Mary Jane Loushin, A-G students

Ms. Sarah Rigda, H-O students

Mr. Bob Harcula, P-Z students

## Course Recommendation

A teacher recommendation may be required for certain courses. If a parent chooses to have his/her student enrolled in a class not recommended by a teacher, then the parent must contact the guidance department for a Parental Override Form.

## Schedule Change Policy

After scheduling is completed, student's schedules will be changed for the following reasons only:

1. To correct an incomplete schedule.
2. To resolve conflicts in requested courses.
3. To meet graduation requirements.
4. To accommodate approved educational programs.
5. To add a class, provided an opening exists in the class and in the student's schedule there first must be written parent approval.

Schedule changes will not be made for:

1. Teacher preference.
2. Late arrival or early dismissal from school.
3. Work considerations.
4. Transportation.
5. Special lunch requests.

## Withdrawal Policy

A student cannot withdraw from a course that he/she is achieving a 70% or better academically. Students withdrawing from a course who do not meet the following guidelines may have an "F" placed on their transcript. Students should follow the procedure listed below prior to attempting to drop a course:

1. Documentation displaying the student contacted the teacher for additional support.
2. Documentation displaying the student received the additional support for at least one grading period.
3. Request his/her counselor contact the teacher regarding the student's academic placement.
4. The counselor will contact the appropriate Assistant Principal regarding academic placement.

## Late Arrival/Early Release

Late Arrival/Early Release is a special privilege for juniors and seniors who have consecutive study halls at the beginning or end of the day. Student schedules will not be changed to accommodate Late Arrival/Early Release privileges. Late Arrival/Early Release privilege is by parental permission only, unless the student is an independent adult and students must be enrolled in at least five (5) credits for the school year. It is the responsibility of the student and parent/guardian to ensure athletic eligibility and credit status prior to applying for Late Arrival/Early Release. In order to apply for and maintain Late Arrival/Early Release, students must be on target to graduate, display consistent attendance, remain in good academic standing (C- or better), and abide by the Marion L. Steele Student Code of Conduct.

The following guidelines must be adhered to by all students who are participating in Late Arrival/Early Release.

1. Student schedules will not be changed to accommodate Late Arrival/Early Release privileges.
2. On certain days due to different schedules, a student may be expected to report to class at a different time. This will be communicated to the students in advance.
3. A student who has Late Arrival/Early Release is subject to tardy procedures as outlined in the Marion L. Steele Student Handbook.
4. Late Arrival/Early Release is a privilege and may be revoked at any time by school administration.

Seniors and Juniors wishing to have late arrival and/or early release **must** apply each semester. Once the application has been approved, students will be notified by their school counselor and have Late Arrival/Early Release placed on their schedule. Students may not arrive late until their application has been approved and their schedule has been updated by their school counselor.



## Graduation Requirements

To graduate from Marion L. Steele High school, students are required to complete the required coursework and meet the credit requirements established by the Amherst Exempted Village Schools Board of Education and meet the Ohio High School Graduation requirements.

### Credit Requirements

Students must earn 24 units of credit or 21 units of credit if in the Vocational Program.

College Prep <sup>1</sup>		College Technology/Tech Prep Program <sup>1,2</sup>		Vocational Program <sup>2</sup>	
English	4 credits	English	4 credits	English	4 credits
Math	4 credits	Math	4 credits	Math	4 credits
Science	4 credits	Science	3 credits	Science	3 credits
Social Studies	4 credits	Social Studies	4 credits	Social Studies	3 credits
World Language	2 credits	Technical Preparation	6 credits	Vocational Program	6 credits
Health	.50 credit	Health	.50 credit	Health	.50 credit
Financial Literacy	.50 credit	Financial Literacy	.50 credit	Financial Literacy	.50 credit
Physical Education	.50 credit	Physical Education	.50 credit	Physical Education	.50 credit
Fine Arts	1 credit	Fine Arts	1 credit		
Electives	3.5 credits	Electives	1.5 credits		
<b>Total</b>	<b>24 credits</b>	<b>Total</b>	<b>24 credits</b>	<b>Total</b>	<b>21 credits</b>

<sup>1</sup> It is recommended students following this academic program and planning to attend college include at least one credit of Fine Arts and two credits of World Language with their elective requirements.

<sup>2</sup> Students following this academic program may be admitted to college but may be required to take additional courses to meet academic requirements.



## Ohio High School Graduation Requirements

In addition to satisfying the required coursework, will satisfy the following:

<b>Classes of 2021 and 2022</b> Students who entered grade nine between July 1, 2017 and June 30, 2019	<b>Classes of 2023 and beyond</b> Students who entered grade nine between July 1, 2019 and June 30, 2020
<a href="#"><u>Three Pathways</u></a> - OR - <a href="#"><u>Permanent Requirements</u></a>	<a href="#"><u>Permanent Requirements</u></a>

In order to meet the **Three Pathways**, students must complete one of the following:

1. Earn 18 graduation points on Ohio's End of Course Exams
2. Earn a remediation-free score on the ACT or SAT
3. Score work ready on the WorkKeys and earn a 12-point, approved industry-recognized credential (or group of credentials).

In order to meet the **Permanent Requirements**, students must demonstrate:

1. Competency in Math and English by passing the state's Algebra I and English II tests. Students who have taken required tests more than once without passing and have received remedial supports are able to show competency through one of the options below:
  - Earn credit for one math and/or one English course through College Credit Plus;
  - Demonstrate career readiness and technical skill through foundational and supporting options;
  - Enter into a contract to enlist in the military upon graduation.
2. Preparation for college or careers by earning two diploma seals, one of which must be state defined. to demonstrate academic, technical and professional readiness for careers, college, the military or self-sustaining professions.
  - State Defined Seals:
    - i. Citizenship Seal
    - ii. College-Ready Seal
    - iii. Honors Diploma Seal
    - iv. Industry-Recognized Credential Seal
    - v. Military Enlistment Seal
    - vi. OhioMeansJobs Readiness Seal
    - vii. Science Seal
    - viii. Seal of Biliteracy
    - ix. Technology Seal
  - Locally Defined Seals:
    - i. Community Service
    - ii. Fine and Performing Arts Seal
    - iii. Student Engagement Seal

The Ohio Department of Education created an overview of the [Ohio High School Graduation Requirements](#). Please note these requirements are subject to change based on ODE mandates.

For more information on Ohio graduation requirements, visit <http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements>.

## Honors Diploma

Students in the class of 2021 and beyond must meet the [revised criteria](#) to earn an honors diploma.

Students need to fulfill all but one criterion for any of the following Diplomas with Honors.		
SUBJECT	Academic Diploma with Honors Graduating Class of 2021	Career-Technical Diploma with Honors Graduating Class of 2021
English	4 Units	4 Units
Mathematics	4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher-level course or a 4-year sequence of courses that contain equivalent content	4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher-level course or a 4-year sequence of courses that contain equivalent content
Science	4 units, including two units of Advanced Science	4 units, including two units of Advanced Science
Social Studies	4 Units	4 Units
World Language	3 units of one world language or no less than two units of each of two world languages studied	2 units of one world language studied
Fine Arts	1 unit	Not counted toward requirements
Electives	Not counted toward requirements	4 units of Career-Technical minimum
Grade Point Average	3.5 on a 4.0 scale	3.5 on a 4.0 scale
ACT/SAT	27 ACT / 1280 SAT	27 ACT / 1280 SAT
Field Experience	N/A	Complete a field experience and document the experience in a portfolio specific to the student's area of focus.
Additional Assessment	None	Earn an Industry-recognized credential or achieve proficiency benchmark for appropriate Ohio Career-Technical Competency Assessment or equivalent.

For more information, see the Ohio Department of Education website at <http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements/Honors-Diplomas> .

## Higher Level Rigor Classes

Classes are characterized by the following:

- **Workload** - (both in-class and homework) exceeds that assigned in other courses in the same department.
- **Independent work** - the amount expected of the student is greater than other courses.
- **Complexity and difficulty of material** - material is more difficult and complex than general education curricula.
- **Critical thinking skills** - Honors/AP classes require a greater amount of activity at the higher levels of critical thinking, including synthesis and evaluation.

The student selection process for Honors or AP courses is designed to make the program available to those who will profit from the challenging work offered. Three (3) factors are considered before a student is admitted to Honors or AP classes.

1. Level of academic achievement
2. Evaluation of previous teacher
3. The expressed desire of student

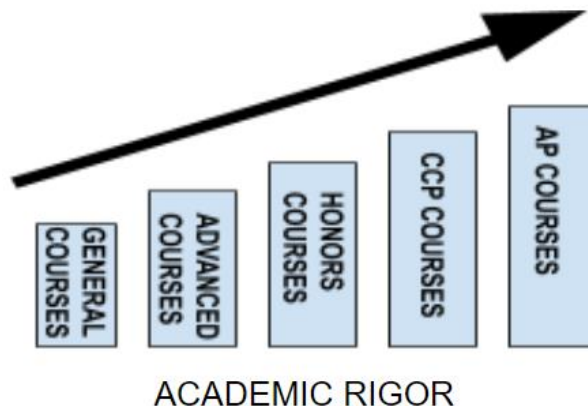
## Weighted Classes

On-site Advanced classes are weighted .5 point

On-site Honors classes are weighted 1.0 point

AP classes are weighted 1.0 point

CCP classes may be weighted 1.0 point - per select CCP guidelines.



## Advanced Placement Program

Advanced Placement courses are the highest-level classes offered at Marion L. Steele High School. Currently there are 10 Advanced Placement classes in the areas of English, Math, Social Studies, and Science. Students must take the Advanced Placement Examination as the culmination of their advanced placement experience. Examinations are offered in May of each year. Some colleges, in turn, grant credit and/or appropriate placement to students who have scored well on the examinations. AP course descriptions are listed in individual department sections. **The AP examination is required to receive course credit. Students are required to pay exam fees by November 2, 2020. AP classes do not automatically receive college credit.**

## Comet College- College Credit Plus (CCP) and Dual Enrollment Guidelines

Ohio's Dual Enrollment Program, College Credit Plus (CCP) program, allows Ohio high school students to earn college credit and high school graduation credit through the successful completion of college courses. Per Ohio law, students in grades seventh through twelfth graders may take college courses at a college campus or, when available, onsite at their high school and receive both college credit and high school graduation credit.

The purpose of CCP is to provide rigorous academic pursuits and expose students to options beyond the high school classroom. Any high school student admitted to a course by an institution of higher education will be required to perform at the same level as the institution's regular students. Colleges and universities enrolling students under this option will be reimbursed from local school funding for tuition, textbooks and materials.

Comet College is an exciting opportunity for Amherst students to earn college credit while still in high school through a partnership with Lorain County Community College. Students taking advantage of the program have the opportunity to graduate high school with both an associate degree and a high school diploma, free of charge. Students may join the program at any time and take advantage of customized 15- and 30-hour pathways. For more information on Comet College visit: <https://www.lorainccc.edu/ccp/college-credit-plus-schools/amherst-comet-college/>

### Program Eligibility

Students must notify their Amherst Steele Counselor no later than June 1st each year if they plan to enroll in the CCP program. Grades earned in the college courses will figure in the high school G.P.A. Students must submit, through a School Counselor, required forms which indicate if the student can register and/or continue his or her enrollment. If requirements are not met, a student will not re-enroll. All students in grades 7 - 12, are eligible to apply. Students must meet the application and testing deadlines and achieve a qualifying score on the ACT, SAT, or Accuplacer Test. These placement scores indicate college-readiness which adhere to Ohio's guidelines. For more information on Lorain County Community College's Placement Assessment visit: <http://www.lorainccc.edu/Admissions+and+Registration/compass.htm>

### Course Suggestions

#### FRESHMEN:

- One course per semester.
- Must meet prerequisite to enroll in a course.
- It is suggested students enroll in any level of English 9 at Marion L. Steele High School.

#### SOPHOMORES:

- Two or more courses per semester may be permitted.
- Must meet prerequisite to enroll in a course(s).
- It is suggested students enroll in any level of English 10 at Marion L. Steele High School.

#### JUNIORS & SENIORS:

- Students willing to enroll to LCCC's English 161 and/or LCCC's 162 or other college equivalent should have successfully completed any level of English 9 and any level of English 10.
- Students wishing to enroll in LCCC's History 151 and/or LCCC's History 152 should have successfully completed American History and Government.

## CCP Classes at Marion L. Steele High School

Students may take up to 30 hours of College Credit Plus classes.

Classes at MLS	Grade	HS Credit	LCCC Credits	Prerequisite
BIOG 121	11,12	1	4	YES
BIOG 122	11,12	1	4	YES
ENGL 161, ENGL 162	11,12	2	6	YES
ENGL 255, ENGL 257	12	2	6	YES
HSTR 151, HSTR 152	11,12	2	6	YES
HSTR 162	10,11,12	1	3	YES
MTHM 168	10,11,12	1	3	YES
MTHM 171	10,11,12	1	4	YES
MTHM 172	10,11,12	1	3	YES
SPHN 251, SPHN 252	11,12	2	6	YES
SPHN 257G	11,12	1	3	YES

### High School Credit Conversion

5 semester hours of college credit = 1 high school credit

4 semester hours of college credit = 1 high school credit

3 semester hours of college credit = 1 high school credit

2 semester hours of college credit = .66 high school credit

1 semester hour of college credit = .33 high school credit

Fractional high school credits shall be awarded

### Course Load

A student must schedule enough credits at high school and/or college to maintain a full-time student status. A formula is used by Marion L. Steele school counselors to determine the number of credit hours a student can take in a year in the College Credit Plus program. This calculation must be completed each year for a student as the high school credits may change. Also, students may only take a maximum of 120 credit hours in the program. If students would like to take more than the maximum number of credit hours, the student can arrange to register and pay for those additional credit hours as a "self-pay" student.

### Credit-in-Escrow

Student may choose to attend a college and receive college credit in escrow. This means a student will not receive college credit until they graduate from high school. The student must pay tuition and fees as established by the college or university and must pay for textbooks and materials.

Students successfully completing college courses under Credit-In-Escrow may be awarded high school graduation credit. Requests must be made in writing before the class begins.

### Transportation

Students participating in College Credit Plus will be required to provide their own transportation to and from the area college.

**APPLICATION MUST BE ON FILE AND TEST TAKEN BY JUNE 1, 2020. PLEASE SEE YOUR COUNSELOR WITH ANY QUESTIONS.**

## Marion L. Steele Guidance Department College Credit Plus Agreement Form

I hereby certify that my son/daughter has received appropriate counseling of the Post-Secondary Enrollment Options Program and College Credit Plus (CCP) available to high school students. I also understand my responsibilities as parent/guardian with my son/daughter's participation in the program.

I have been informed of the following: program eligibility, process for granting credit, financial arrangements (tuition, books, materials, fees) criteria for transportation, available support services, scheduling, consequences of failing, student's academic and social responsibilities, graduation requirements, and use of college counseling services.

I have also been informed of my academic and social responsibilities as a parent/guardian in the following: acceptance by the college, meeting all requirements and standards for college courses, attendance requirements and means of transportation. I understand that all grades earned in the CCP will be part of my son/daughter's permanent academic record in high school.

**I understand that under CCP, should my son/daughter fail or withdraw from any course, I will be held financially responsible for all tuition fees, books, and costs associated with my child's enrollment. I give permission for the college to exchange education records with Marion L. Steele High School. As a parent, I believe my son/daughter possess the maturity and academic ability necessary to complete college-level work successfully.**

As a student, I believe I am a mature, self-motivated individual who is able to study at the advanced level required for academic success in college course.

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Parent/Guardian Signature

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Print Name (Parent/Guardian)

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Student Signature

---

Print Name (Student)

---

Counselor Signature

---

Current Grade

---

Date

**This form must be signed and returned prior to CCP registration.**

From the Ohio Department of Higher Education: ORC 3365.09(A) A school district or nonpublic school may seek reimbursement from students/families under the following two circumstances: 1) If the student receives a failing grade at the end of the college course; or 2) if the student withdraws from or drops the college course subsequent to the 14th calendar day after the particular course began, unless the student is identified as being economically disadvantaged in accordance with Ohio Administrative Code 3333-1-65.6(B)(2) <https://www.ohiohighered.org/ccp/fags>.



## NCAA Eligibility and Approved Courses

Any student who intends to play NCAA Division I or II athletics should be aware of the NCAA eligibility requirements. As the eligibility requirements are subject to change, it is imperative that student-athletes (especially juniors and seniors and/or parents) meet with their school counselor immediately to acquire and review the [NCAA Eligibility Center](#). Based upon this review it may be necessary to initiate immediate schedule changes in order to satisfactorily meet or exceed the NCAA requirements for coursework, GPA and/or standardized test scores.

Below is a list of NCAA approved courses currently offered at Marion L. Steele High School.

### English

Adv. English 9	AP English 12	English 11	LCCC ENGL 162
Adv. English 10	College Prep English 12	Honors English 9	LCCC ENGL 255
Adv. English 11	English 9	Honors English 10	LCCC ENGL 257
AP English 11	English 10	LCCC ENGL 161	Oral Communication

### Mathematics

Adv. Algebra 2	Algebra 2	College Prep Math	Geometry
Adv. Geometry	AP Calculus	LCCC MTHM 168	Pre-Calculus
Adv. Precalculus	AP Physics/Calculus	LCCC MTHM 171	Statistics
Algebra 1	Calculus	LCCC MTHM 172	

### Science

Adv. Biology	AP Physics	Earth & the Environment	Physics
Adv. Chemistry	AP Physics/Calculus	Forensic Science	Physics 2
Adv. Physical Science	Astronomy	LCCC BIO 121	Practical Science
AP Biology	Biology	LCCC BIO 122	
AP Chemistry	Chemistry	Physical Science	

### Social Studies

Adv. Contemporary World History	AP Government	Government/Economics	LCCC HISTR 162
Adv. American History	AP United States History	Intro to Philosophy	Military History
Adv. Government/Econ	American History	LCCC HISTR 151	Psychology/ Sociology
AP European History	Contemporary World History	LCCC HISTR 152	World Geography

### World Languages

French I	French IV	LCCC SPNH 252	Spanish I
French II	French V	LCCC SPNH 257	Spanish II
French III	LCCC SPNH 251	LCCC SPNH 258	Spanish III

## Lorain County JVS Vocational/ Technical Training

The Lorain County JVS provides two-year training programs in a variety of career areas leading to a job or further post-secondary training. To be admitted to the JVS, students need to apply as part of their sophomore year scheduling process. **Note: Sophomores who apply to the JVS, only need to select “JVS” on their schedule at Steele.**

### Requirements for Admission:

- A. Students must have completed a minimum of two years at Steele and be sixteen (16) years of age by January 1 of that school year in which the student begins classes at the JVS.
- B. Students applying to any of the two-year JVS programs should have accumulated a minimum of 10 credits at Steele. The following credits are suggested minimum requirements:

2 credits of English	1 credit of Fine Arts
2 credits of Math	.50 credit - Financial Literacy
2 credits of Science	.50 credit - Health
2 credits of Social Studies	.50 credit - Physical Education

### Courses Offered at Lorain County JVS

#### **Building Trades Academy**

##### Carpentry

Learn the basics of wood-framing including project layout and designs, the use of hand and power tools, blueprint reading, cost estimation, insulation, exterior finishing and more.

##### Heating/Air-Conditioning

Learn how to layout and fabricate sheet metal, duct work, electrical schematic reading and troubleshooting, residential and commercial installation of heating and air-conditioning systems, and troubleshooting of light commercial refrigeration systems.

##### Industrial Electricity

Maintain, install, and repair electrical wiring equipment used in residential and industrial settings. Students work with computer programmable controls and electrical motors.

##### Masonry Trades

Estimate, layout and construct masonry walls, fireplaces, chimneys, patios, driveways, and home foundations. Laying brick, block, stone and glass block, as well as the processes of pouring cement and concrete to forms and models, are learned in this program.

#### **Business and Marketing Academy**

##### Web and Graphic Design

Learn up-to-date techniques, using an online curriculum and hands-on activities to develop, create, and publish web pages, newsletters, magazines, business cards and much more! Use current technology and the latest software to prepare for industry certification exams.

##### Marketing & Entrepreneurship

Being involved with advertising, sales, promotion, pricing, product development as well as studying business management and entrepreneurship. Learn to conduct business online and operate and manage the school store.

## **Community Service Academy**

### Cosmetology

Scientific study and practice of beauty culture which includes hairstyling, hair cutting, manicuring, skin care, chemical services and all related areas including the sciences, professional ethics, and employability skills. This is a state certified program in preparation for state licensing.

### Early Childhood Education

Through working directly with three, four, and five-year-old children, students experience operating a preschool, learn about child growth and development, lesson plans, human relations, and nutrition.

### Landscaping/Greenhouse Management

Aspects of landscape design, greenhouse management and production, equipment operation and maintenance, golf course and sports turf management, floral design, garden center operation, customer service, and business management.

### Public Safety

Students will learn the basics of Public Safety. These areas include emergency medical technician and firefighting. Specific topics of study include dispatch, communications, incident command, Homeland Security, lifesaving techniques and fire behavior and control.

## **Culinary Academy**

### Bakery / Pastry Arts

Basic and advanced techniques working on/with items such as marzipan, chocolate, breads and cake decorating. Sanitation and safety as well as the science of baking and pastries will be included.

### Culinary Arts

Students learn the art and science of preparing and serving food for large numbers of people in restaurants, banquets, and catering situations.

## **Manufacturing Academy**

### Computerized Design & Drafting

Draw and calculate working plans used in manufacturing and construction. Students acquire both manual and computer aided drafting (CAD) skills used in electrical, mechanical, architectural, aeronautical, and civil engineering areas.

### Precision Machine Technology

Learn techniques shaping and cutting metal and plastic parts on lathes, milling machines, grinders, drills and power-driven machines. This program also includes computer numerical control (CNC) machines.

### Welding & Fabrication

Setup and operate welding equipment to position, align, fit and weld parts together. Customer projects are used for students to learn layout, fabrication, and welding techniques.

## **Transportation Academy**

### Auto Technology

Diagnose, adjust, and repair automotive systems including engines, transmissions, suspensions, brakes, electrical and air conditioning.

### Collision Repair

Learn frame and body straightening, welding, refinishing, painting, replacing glass, installing upholstery, estimating costs and preparation of insurance forms.

### Commercial Truck Technology

Check and repair diesel and gas engines, electrical, fuel, brakes, and clutch systems on trucks and buses. Transmissions and drivetrains, lubrication and maintenance will also be covered.

### Industrial Equipment Mechanics

Learn small and large equipment repair and maintenance, welding, engine and powertrain overhaul, parts and service training, hydraulic and diesel and fundamentals. Students work on tractors, trucks, industrial and agricultural equipment.

## **One Year Programs- Require Recommendation**

### Maintenance Services

One-year junior program for students with special needs. It is designed to prepare students with basic skills in many different maintenance occupations, including interior and exterior maintenance, basic electricity, carpentry, and basic plumbing.

### Hospitality Service

A one-year program for students with special needs. It is designed to prepare students with basic skills in service occupations including food service, health care, childcare, laundry care and commercial housekeeping skills.

### Senior Career Based Intervention

This is a senior only program designed to serve students who may be behind in academic credits. Students are eligible to receive seven credits with a minimum of 15 hours of work per week. All students must have a valid driver's license, their own transportation, and be recommended by their counselor.

### Career Exploration

Career Exploration is designed for 9th or 10th grade students who are at least 15 years old and who are interested in exploring careers in various vocations. Students will have the opportunity to develop leadership, communication, problem solving, as well as critical thinking skills. The Career Exploration program will provide students with hands-on experiences in a variety of trade areas as well as allow students to research careers suitable for their individual interests and learning styles. The focus will be on project-centered learning; an approach to learning that emphasizes connections between ideas in an area or discipline, between one discipline and another, and between schools and the outside world. **Students are selected on a recommendation basis by their high school counselor or principal.**

### Career Readiness

This career readiness lab is for students 14 and under with a structured lab. **Students are selected on a recommendation basis only by their high school counselor or principal.**

### Job Training Program

The Work Adjustment Program at the Lorain County JVS offers a variety of flexible educational options for students who are receiving Work Study services through their home school.

## **Teacher Education Exploration (TEE) Program**

**Application and acceptance are required for this SENIOR level program.**

The Teacher Education Exploration (TEE) Program is an experienced-based course that encourages and prepares high school seniors who have an interest in the field of education. Seniors should have a minimum 2.5 GPA and a strong interest in education: teaching, administration or support services. Seniors accepted into the TEE program will be scheduled into three blocks during the school year, 2 blocks one semester, and 1 block the other semester. During this time, students will participate in several internships with cooperating teachers in the Amherst Schools, kindergarten through 9th grade. In addition to the daily hands-on training in classrooms, students will be supervised and supported by a TEE coordinator who will meet with them every week.

The TEE program is committed to training high school seniors with required skills, methods and strategies which have proven effective with every grade level and subject area of teaching. It will introduce students to the field of education, specifically teaching, while still in high school and either confirm or reject their feeling about the educational field prior to college.

## College Technology Programs

Through a partnership with the Lorain County JVS and Lorain County Community College, students may participate in the College Technology Program. In this two- year program of study, students will receive dual credit that combines traditional college-prep academic classes with specialized lab instruction in the technology area of choice. More specifically, CTP students take the same english, science, social studies, and math courses that all college-bound students take. However, their elective time is spent in lab settings troubleshooting, creating, solving, building and designing. Students get the chance to experiment and practice with real-world problems in addition to taking notes and attending lectures. They can also “try out” their potential career field before investing in college tuition.

### **Project Lead The Way (PLTW)**

This three-credit course is open to Juniors and Seniors. Learn the basics of mechanical engineering including robotics, computerized manufacturing techniques, fluid power, and motor controls. Students interested in the PLTW program should take the year- long Introduction to Project Lead the Way class during sophomore year at Marion L. Steele High School.

### **Digital Media Arts 1**

Juniors work in a digitally integrated computer lab and studio environment where they gain hands on experience with high definition digital cameras and still cameras as well as digital audio and lighting equipment. Students use industry standard software to create digital content that can be applied to a career in video/film production, two-dimensional/three-dimensional animation, photography and print media. They will also learn and apply the foundations of color theory, design and conceptualization while attending this three- credit course.

### **Digital Media Arts 2**

This three- credit course is a continuation of the Digital Media Arts 1 program and for seniors only.

### **Allied Health Sciences**

Open to all students in 11th and 12th grades with a sincere interest in a health career. Strong math and science skills are a plus to be successful in this highly academic tech prep course. Students have the opportunity to earn up to 19 college credits through articulation agreements with LCCC.

## Steele News Live

### **TV and Comm. Tech 11**

Credit: 3

Grade: 11

Length: 3 blocks during the year

This course is the first year of a two-year program. The program introduces students to the process of successful public speaking and the technology needed for all phases of TV Production. Students research and execute various speech types (informative, persuasive, demonstration, etc.) and then transfer that knowledge into television performance. Students will gain hands-on experience operating all of the equipment in our professional television studio.

### **TV and Comm. Tech 12**

Credit: 3

Grade: 12

Length: 3 blocks during the year

Prerequisite: TVCT 11

Lights! Camera! Action! You are on Steele News Live! This course is the second year of the TVCT program and is for seniors. Using the skills learned during TVCT 11, our seniors write, edit, produce and perform the Steele News Live - a live 10-minute newscast that is seen daily by the entire school. Students learn how to product videotaped feature stories on people in our school and community as well as on important school events. Also, issues that face the television industry are explored using professional journals and texts.

## Medical Health Technology

Medical Health Tech is a two- year program that prepares you to pursue a degree in allied health care. Most coursework in Medical Health Technology is articulated with Lorain County Community College. The student must earn a grade of 80% to earn full college credit with articulated courses. Currently, ALHN 110; HPED 165; ALHN 121 are offered as CCP courses.

### **Medical Health Technology 11 (MHT)**

Credits: 3

Grade: 11

Length: 3 blocks during the year

### **LCCC ALHN 110 Medical Terminology 1- CCP**

Credit: 1 (3 LCCC credits) (weight 1.0)

This course will introduce medical terminology including common medical word roots, prefixes, suffixes and combining forms. It will include common medical abbreviations, pronunciations, spelling and definitions of medical terminology related to the human body systems.

### **HLED 153 First Aid and Safety (2)\***

This course utilizes hands on training to provide the citizen responder with the knowledge and skills necessary to perform in an emergency to help sustain life, reduce pain, and minimize the consequences of injury or sudden illness until professional medical help arrives. Red Cross Responding to Emergencies and American Heart Association Healthcare Provider certificates will be awarded upon successful completion of the course.

### **ALHN 113 Introduction To Patient Care (1)\***

This course introduces the student to the health care delivery system, exploring methods of providing basic patient-care skills, patient safety and an introduction to healthcare worker safety in a medical environment.

### **HLED 181 Nutrition & Weight Management Strategies (2)\***

This course is designed to enhance the student's knowledge and understanding of healthier eating patterns and exercise as a means of reaching and / or maintaining a healthier weight and prevention of lifestyle diseases.

### **HPED 166 Group Fitness Prep (2)\***

The focus of this class is to develop instructional techniques such as cueing, choreography, and how to safely modify classes to meet the needs of both healthy individuals and special populations for all formats of group exercise classes.

### **PEWL 151 Stress Management (2)\***

An introduction to a study of the physiological and psychological effects of stress upon the human body. The focus is on the investigation and practical application of specific skills for managing stress throughout one's lifetime.

### **HPED 265 Prevention & Care of Sport Injuries (2)\***

This course presents an introduction to sports medicine. It will provide the student with the basic fundamentals of preventing, recognizing managing, taping/ wrapping and evaluating of athletic related injuries / diseases.



**Medical Health Technology 12 (MHT)**

Credits: 3

Grade: 12

Length: 3 blocks during the year

**BIOG 115 Body Structure & Function (3)\***

Prerequisite: ALHN 110 or equivalent BIOG 122

Provides a basic knowledge of normal structure and function of the human body.

**LCCC ALHN 121 General Pathology (2) - CCP**

Prerequisite: BIOG 115 / BIOG 122

Basic principles of pathogenesis are explored. This also includes the study of the clinical manifestations of diseases according to body systems, diagnosis, treatment, and surgical intervention for the specific disease processes.

**LCCC HPED 165 Introduction to Exercise Science (3) - CCP**

This course provides an introduction to exercise science and the related sub-disciplines. Information concerning choosing a career, national certifications, professional organizations, and legal issues will be addressed. Students will explore professional goals, potential careers, and the essential competencies required to be successful in the field of exercise science and sport and fitness management.

**HPED 172 Exercise Management For Special Populations (2)\***

This course provides an overview of health considerations and exercise programming for special populations though identification of medications, modification of testing procedures, equipment adjustments and exercise prescriptions.

**HLED 152 Community Health (2)\***

This course encompasses knowledge and understanding of major health problems in communicable and noncommunicable disease control, safety, consumer and environmental health.

**HPED 285 Wellness Practicum Seminar (2)\***

Student interns will apply practical skills by working 105 hours in the field of health, physical education and fitness through on campus and off-site experiences. Seminar component will address topics relevant to case studies, exercise programming, legal and safety concerns. A professional program portfolio will be completed and submitted as part of the course requirements.

**\* LCCC ARTICULATED CREDIT**

## Technology/ Business Education

### **Coding Discoveries: App and Game Design**

Credit: .50 (counts toward a Fine Arts credit)

Grades: 9,10,11,12

Length: 18 weeks, 1 period

In this introductory coding class, students will build their coding experience while programming animations, interactive art, and games in Game Lab and App Lab. Students will also utilize such programs as Java Script and Python while learning programming concepts and the design process computer scientists use daily. Students will be empowered to engage with computer science as a medium for creativity, communication, problem solving, and fun.

### **Coding Principles: Web Design**

Credit: .50 (counts toward a Fine Arts credit)

Grades: 10,11,12

Length: 18 weeks, 1 period

Prerequisite: Graphic Art Design or approval by teacher

This class explores coding elements in website creation and way digital information is encoded, represented and manipulated. Using software applications and programs, students will be able to create and publish web pages as well as understand the basic concepts of how a website works. This course will enhance 21<sup>st</sup>-century skills in digital and web design and front-end web development.

### **Graphic Arts Design**

Credit: .50 (counts toward a Fine Arts credit)

Grades: 9,10,11,12

Length: 18 weeks, 1 period

Graphic Arts involves a range of cognitive thought processes, the use of aesthetics and utilizing creativity. Like other forms of design, this class incorporates the process by which the visual communication is created, and designs are generated. The class is designed so students will learn the process of how to visually communicate with their audience through the use of graphics. Designed as a hands-on, project-based class setting, students will become familiar with the different aspects of using a Mac laptop.

### **Got Google?**

Credit: .50

Grades: 9,10,11,12

Length: 18 weeks, 1 period

Got Google? will teach students how to use variety of Google tools. Students will create and utilize the G Suite Applications including documents, spreadsheets, presentations, and forms. Students will learn about the versatility of Google tools and have the option of taking the Google Certification exam (fee required). In addition to G Suite Applications, student will learn how to perform web searches using different operators or advanced search options and determine the validity of online sources. This class will also cover major social and ethical issues in computing.

**Project Lead the Way (PLTW)- Grade 10**

Credit: 1

Grades: 10

Length: 36 weeks, 1 period

This year- long course is an Introduction to the Project Lead the Way program as part of the College Technology Program partnership with Lorain County JVS and Lorain County Community College. Open to any sophomore interesting in the engineering field. Students will dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects.

**Financial Literacy**

Credit: .50

Grade: 9

Length: 18 weeks, 1 period

Financial Literacy will introduce students to concepts involved with financial responsibility. The course goal is to teach students how to be successful in handling their money. Topics covered will include decision making and goal setting, education and career Choices, budgeting basics, understanding and using credit, spending and saving wisely; earning money and paying taxes, identity theft and fraud, teen consumer rights and responsibilities. This course satisfies the state requirement for a personal finance experience.

# Family and Consumer Sciences

## **Career and College Readiness**

Credit: 0.5

Grades: 10,11,12

Length: 18 weeks, 1 period

In this course, students will develop effective learning strategies and skills to provide a strong foundation for successful lifelong learning. Throughout the course, students will research careers and occupations, review postsecondary admissions qualifications, develop interviewing skills and participate in internships. Additional topics will include principles and techniques of professionalism, networking, conflict-resolution, negotiation, leadership and entrepreneurship. In this course, students will analyze interests, aptitudes and skills to prepare for careers and transition through life. An emphasis will be placed on work ethics, team building, communication and leadership skills. Additional topics will include technology etiquette and career planning.

## **Child Development**

Credit: 0.5

Grades: 10,11,12

Length: 18 weeks, 1 period

This class is designed to study the self, decision-making, relationships, readiness for marriage, qualities of a successful marriage and a strong family unit. The course will analyze the choice to parent, explore parenting styles, and focus on the development of children from conception to school age. Basic child care will emphasize physical, emotional, social and intellectual growth. Related career exploration will be continuous. Practical information will help students with real life situations. Students are required to care for a Real care Baby infant simulator as a weekend project.

## **Culinary Fundamentals & Wellness**

Credit: 1

Grades: 10,11,12

Length: 18 weeks, block

Prerequisite: Principles of Food & Textile Management

Students will study food patterns created to healthy lifestyle choices with emphasis on nutrition, safe food handling & practices that sustain the environment. They will analyze wise food purchasing decisions and meal management techniques. Students will apply basic culinary practices and understand how flavor, texture and appearance are affected during food preparation of appetizers, main dishes, salads, pastries, holiday baking and candy making. Class fees cover cooking expenses.

## **Personal Wellness**

Credit: 0.5

Grades: 9,10,11,12

Length: 18 weeks, 1 period

In this course, students will analyze personal physical, emotional, social and intellectual growth for a healthy lifestyle. An emphasis will be placed on lifespan wellness by managing stress through relaxation, physical activity and sleep. Additional topics will include human growth development, mental health management, personal hygiene and preparing for emergency medical situations.

## **Principles of Food & Textile Management**

Credit: 1

Grade: 9,10,11,12

Length: 18 weeks, block

Students will study the fundamentals of real food origins and nutritional values to gain knowledge in practicing a healthy lifestyle. They will experience the skills to become safe consumers and handlers of food. Students will master basic levels of skill required to prepare nutritious foods independently. Additional focus on savvy consumerism will explore creative environmental solutions, the utilization of sustainable resources (repair, recycle and repurpose), the impact of advertising, and the development of consumer purchase decision skills. Basic clothing construction activities and maintenance techniques are designed to promote project planning and time management while building self-reliance for successful adult life management. Class fees cover cooking expenses. Students are responsible for the selection and purchase of individual textile projects.

## Fine Arts

### Art I

Credit: 1

Grades: 9,10,11,12

Length: 18 weeks, block

This course provides a solid foundation for the visual and technical aspects in art. This course is designed to develop your potential as a creative and critical thinker. It is an introduction to the variety of media available, emphasizing the elements of art: line, shape, form, variety, space, texture, and color. This a beginning art class for students wishing to pursue upper level art courses, as well as for those who wish to satisfy their Fine Arts requirements for graduation. By exploring exciting opportunities and materials through the art-making process, students will develop an understanding and appreciation of art as a means of expression. **Fee Required.**

### Art II

Credit: 1

Grades: 9,10,11,12

Length: 18 weeks, block

This course continues to emphasize both the visual and technical aspects learned in Art I. Personal expression is emphasized and the study of Art history provides the student with a better understanding of the Visual arts as a means of communication. This course concentrates on drawing, painting, printmaking and ceramics. Students will learn to analyze their own works of art, as well as the art of the peers by participation in classroom critiques. Students will have an opportunity to create artwork that has greater depth, detail, and meaning in Art II. This course is designed to push students to think critically, be creative, and increase their potential as an artist. **Fee Required.**

### Art III

Credit: 1

Grades: 10,11,12

Length: 18 weeks, block

This course is designed for students who are seriously interested in art. This course guides the self-motivated art student to create high quality artwork through a series of challenging artistic problems. This course will focus on the development of the skills learned in Art I and Art II, as well as expanding on the media available to the artist in the 21st century. Art History and critiques continue to add to the development of each student. This course is designed to give a lot of responsibility to the individual so that each student can reach their full artistic potential. Artwork created in this class becomes part of the students art portfolio: a collection of works showing excellence, growth, and artistic development. **A sketchbook may be needed. Fee Required.**

#### **Art IV**

Credit: 1

Grades: 11,12

Length: 18 weeks, block

This class may be taken after Art III but is separate from our AP Studio Art class. This course guides the self-motivated art student through the continuing assessment, development, organization, selection and presentation of his or her artwork and portfolio. Each student continues to create pieces to enhance and complete their portfolio. This course is designed to give a lot of flexibility and responsibility to the individual, in order to meet the differing needs of each student. This class offers each student an opportunity to concentrate on a specific medium, which may include drawing, painting, ceramics, printmaking, sculpture, design, and photography. Assessments, deadlines, and critiques are agreed upon by the student and instructor. **A sketchbook may be needed. Due to the cost of some materials, it may be necessary for students to purchase items on their own. Fee Required.**

#### **AP - Studio Art**

Credit: 1 (weight 1.0)

Grades: 11,12

Length: 18 weeks, block

Prerequisite: Approval of Instructor

This course is designed for the highly motivated and responsible student who is committed to the study and creation of visual art. The student must be willing to put in the time and effort necessary to produce high quality work. Using guidelines established by the Advanced Placement College Board, students must prepare a portfolio of their best work to be submitted for discussion and evaluation at the end of the school year. Students will work in a variety of media, including a personal concentration of at least twelve pieces that focuses on a theme of personal interest to each student. To be successful in this course many of the art projects must be done outside of class. Students will have the opportunity to concentrate in a particular medium, art style, and/or subject matter. Students are expected to complete approximately one major project each week, and they will be required to prepare portfolios of their best work for participation in the Spring Portfolio Exhibition and for the College Board's AP portfolio exam. **A sketchbook may be needed. Due to the cost of some materials, it may be necessary for student to purchase items on their own. In addition, there is a fee of approximately \$85.00 for the AP exam (Portfolio review).**

## **Band**

Credit: 1

Grades: 9,10,11,12

Length: 36 weeks, block

Prerequisite: All band students must have studied a musical instrument prior to 9th grade. If not, please see the director for instructions on what to do if the above requirement has not been met.

All members are auditioned and assigned to an ensemble listed below after marching band season is completed. All ensembles will perform a Winter Concert, Contest Concert, Spring Concert, and an OMEA Band Contest.

Symphonic Band (Level One): Open to any student meeting the prerequisite requirements. However, seating auditions will still apply. Students will be introduced to several styles of music and instrumentation.

Wind Ensemble (Level Two): Reserved for the top musicians of the program. Literature will be of the highest quality and expectations will be high.

Jazz Band (Extra): Students enrolled in Band may also double and perform in Jazz Band. If time permits, students may also choose to play in more than one Concert Band.

## **Marching Band - PE Fulfillment**

During the first 9 weeks of school, The Amherst Marching Comets will rehearse during the scheduled band period and will also rehearse after school as an extra-curricular activity. Please see the Marching Band handbook for more information. You must be enrolled in two years of marching band to get the full PE fulfillment for graduation requirements. *In order to participate in the marching band, students must first be enrolled in Band.*

## **Orchestra**

Credit: 1

Grade: 9, 10, 11

Length: 36 weeks, 1 block

Prerequisite: Completion of Junior High string orchestra on violin, viola, cello, bass, or classical guitar, **OR** by director's discretion (proof of private lessons on a stringed instrument and audition).

Educational emphasis is placed on the advancement of instrumental technique and further development of music reading, comprehension skills, and independent/ensemble musicianship. Students will participate in performances and contest opportunities outside of class 3-4 times a year.

Symphonic Orchestra (Level One): Open to any student meeting the prerequisite requirements.

Chamber Orchestra (Level Two): Reserved for the top musicians of the program. Literature will be of the highest quality and expectations will be high.

## **Choir**

Credit: 1

Grades: 9,10,11,12

Length: 36 weeks, block

This course will cover vocal technique, reading music, musicianship, and performance skills. Students are placed in the proper ensemble (listed below) based on their singing skill.

Concert Choir (Level Three): Mixed (SATB) by audition only

Women's Choir (Level Two): (SSA) by permission/audition only

Tenor/Bass Choir (Level One): (TB) no audition needed



### **Soprano Alto Choir**

Credit: 1

Grade: 9

Length: 36 weeks, 1 period

This course will cover vocal technique, reading music, musicianship, and performance skills.

### **Advanced Choir**

Credit: 1 (weight .5)

Grades: 9,10,11,12

Length: 36 weeks, block

Prerequisite: Director's permission

Students in Concert Choir may sign up for this course instead of choir. Extra requirements of the course are listed below (any one item must be completed each quarter):

- A. Perform a Class A or B solo or ensemble at OMEA/Lorain County Adjudications
- B. Participate in: Madrigals, Bell Choir, Honor's Choir, special act, or private lessons.
- C. Must remain a member in good standing.

### **Music Exploration**

Credit: 1

Grades: 9,10,11,12

Length: 18 weeks, block

This course covers all aspects of music. Students will study classical, jazz, rock, pop, world music, hip-hop, and explore each of these areas using current technology. Technology includes you-tube, podcasts, distance learning with the Rock Hall, garageband and Finale notebook. No music experience is necessary.

### **Music Theory**

Credit: 1

Grades: 9,10,11,12

Length: 18 weeks, block

This course is for students who wish to expand their knowledge of music and will cover music writing, chords, rhythms, scales, and other fundamentals of music theory. Students who wish to study music in college are highly encouraged to take this course in preparation for college placement exams.

### **AP Music Theory**

Credit: 1

Grades: 10,11,12

Length: 36 weeks, 1 period

The AP Music Theory course corresponds to a typical introductory college music theory course. Students will be introduced to the fundamentals of music theory and composition and will learn how these elements are used in music. The emphasis of this course will be on the rules of music theory and composition, ear training, sight singing, dictation, theoretical analysis, and basic keyboard skills. This course is designed both for students who desire to prepare for music as a career as well as those who desire it for personal enrichment. Students should be able to read and write basic music notation. It is **strongly recommended** that students have a background in either instrumental or vocal music. Approval from instructor is required. **AP examination is required to receive course credit (approximately \$85.00).**

## Health and Physical Education

Prior to the end of sophomore year, all students should satisfactorily complete ½ credit of health and physical education to meet graduation requirements. Two seasons of participation in a sport, band, or cheerleading will fulfill the requirement for physical education. All PE courses may be taken more than once, but only a total of one P.E. credit will count toward the credits required for graduation. Activities will be individually adapted for students with handicaps or injuries.

### Health

Credit: .50

Grades: 9

Length: 18 weeks, 1 period

This course is designed to help students accept responsibility for their own lifestyles and personal decisions. Areas covered will include: health wellness, nutrition, exercise, STDs, AIDS education, other diseases, emotional health, substance abuse, human sexuality, and other teen issues.

### Physical Education

Credit: .50

Grades: 9,10,11,12,

Length: 18 weeks, 1 period

This class will concentrate on improving the cardiovascular and muscular systems of all participants. The class will consist of weight training, walking, rope skipping, and other aerobic activities along with group games, competitions and fitness testing.

### Strength and Conditioning

Credit: .50

Grades: 9,10,11,12

Length: 18 weeks, 1 period

The class will consist of personalized strength and conditioning training for each individual student. Developing the athletic components of strength, explosiveness, and endurance along with cardio strength (both pulmonary and respiratory) will be the emphasis.

### Walking For Fitness

Credit: .50

Grades: 9,10,11,12

Length: 18 weeks, 1 period

The purpose of fitness walking is to increase heart rate and introduce an independent lifelong activity. Fitness walking is non-competitive in nature and does not require great athletic skill. Walking reduces impact on joints, reduces stress, increases cardiorespiratory stamina, and prevents injuries. Vigorous walks for distance and walking for time are how fitness walking reaches the same physiological benefits of running. To see weight loss, walkers will have to maintain their target heart at least 4 days a week for 30-40 minute durations. Along with walking, students will also be introduced to various weight training exercises that will focus on muscular endurance. Weight training will be done twice per week.

# World Languages

## **French 1**

Credit: 1

Grades: 9,10,11,12

Length: 36 weeks, 1 period

A basic level program with an emphasis on communication in French, both oral and written. Student should develop practical speaking and listening skills, as well as the skills necessary to read simple phrases and write complete sentences. Students will gain a sensitive appreciation of the French-speaking world and gain insight into different French cultures. Students will be responsible for practicing the language outside of the classroom setting.

## **French 2**

Credit: 1

Grades: 9,10,11,12

Length: 36 weeks, 1 period

Prerequisite: French 1 (Recommend Grade of C or better)

A continuation of the French 1 program, with emphasis on using more complex sentences orally and in writing. Students continue to develop their reading and writing skills while expanding their oral communication skills. The course takes a more in-depth approach than French 1, incorporating different verb tenses and their uses, more complex grammar structures of the language, and more specialized vocabulary. The study of various French-speaking countries and cultures is continued and expanded. Students will be responsible for practicing the language outside of the classroom setting.

## **Advanced French 3 Online**

Credit: 1 (weight .50)

Grades: 10,11,12

Length: 36 weeks

Prerequisite: French 2

Advanced French 3 will incorporate all the previous knowledge of grammar and vocabulary, while adding new, advanced structures. Class will be conducted mostly in French. Students will be expected to use French for conversation and writing, at a level higher than in French 2. The study of French-speaking countries will focus on literature, art, history and current issues.

## **Advanced French Composition and Conversation Online**

Credit: 1 (weight .50)

Grades: 11,12

Length: 36 weeks

Prerequisite: Advanced French 3

The primary objective of this course is to increase the students' knowledge of their basic skills and introduce them to the more complex forms of French grammar, vocabulary and the cultural aspects of the French-speaking world. Emphasis will be on increasing oral and written competences in the target language.

**Spanish 1**

Credit: 1

Grades: 9,10,11,12

Length: 36 weeks, 1 period

A basic level program with the emphasis on communication in Spanish, both oral and written. Students will develop practical skills and listening skills. Reading and writing will also be introduced with simple structure. The culture of Spanish speaking countries will be introduced as well to foster an appreciation and insight into the Spanish speaking world. Students will be responsible for practicing the language outside of the classroom setting.

**Spanish 2**

Credit: 1

Grades: 9,10,11,12

Length: 36 weeks, 1 period

Prerequisite: Spanish 1 (Recommend Grade of C or better).

Spanish 2 is a continuation of increasing students' abilities to read, write, speak and listen in the target language. This second level course takes a more in-depth approach than Spanish 1, incorporating different verb tenses and their uses, more complex grammar structures of the language, and more specialized vocabulary. Students will be responsible for practicing the language outside of the classroom setting.

**Advanced Spanish 3**

Credit: 1 (weight .50)

Grades: 10,11,12

Length: 18 weeks, block

Prerequisite: Spanish 2 (Recommend Grade of B or better).

Advanced Spanish 3 will incorporate previous Spanish grammar while learning new advanced structures. Classes will be conducted in Spanish the majority of the time. Students will be expected to speak and converse in a natural setting. Students will also be expected to write essays such as reactionary papers or summaries.

**LCCC SPNH 251G****Comet College****Intermediate Spanish - CCP**

Credit: 1 (3 LCCC credit hours) (weight 1)

Grades:11,12

Length: 9 weeks, block

Prerequisite: Advanced Spanish 3

This course is aligned with the third semester of college Spanish. It reviews the fundamental structures and introduces more complex grammatical structures and communicative skills with a balanced emphasis on speaking, listening, reading and writing. There is exploration of the civilization, culture, and customs of Spanish-speaking people. Conducted in Spanish.

**LCCC SPNH 252G****Comet College****Intermediate Spanish - CCP**

Credit: 1 (3 LCCC credit hours) (weight 1)

Grades: 11,12

Length: 9 weeks, block

Prerequisite: LCCC SPNH 251G

Continuation of Intermediate Spanish I. Class discussion conducted in Spanish. Further refinement of the four language skills, comprehension, speaking, reading and writing. Introduction to a variety of topics related to Hispanic culture. Recommended for students planning to enroll in Language and Culture of Spain, and Language and Culture of Latin America.

**LCCC SPNH 257G****Comet College****Spanish Composition- CCP**

Credit: 1 (3 LCCC credit hours) (weight 1)

Grade: 12

Length: 9 weeks, block

Prerequisite: LCCC SPNH 252G

A course in Spanish composition with the 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.

**LCCC SPNH 258G****Comet College****Spanish Conversation - CCP**

Credit: 1 (3 LCCC credit hours) (weight 1)

Grade: 12

Length: 9 weeks, block

Prerequisite: LCCC SPNH 257G

Development of speaking and listening skills and strategies, working from intermediate toward an advanced level of proficiency. Emphasis on vocabulary acquisition and usage. Conducted in Spanish.

## English/ Language Arts

### Suggested English Tracks

Comprehensive	Advanced	Honors/ AP
English 9	Advanced English 9	Honors English 9
↓	↓	↓
English 10	Advanced English 10	Honors English 10
↓	↓	↓
English 11	Advanced English 11	AP English 11 Language and Composition
↓	↓	↓
English 12 or College Prep English 12	College Prep English 12 or College Credit Plus Offerings	AP English 12 Literature and Composition

### English/ Language Arts Course Descriptions

#### English 9

Credit: 1

Length: 36 weeks, 1 period

This course continues the study of literature, composition, grammar, and vocabulary. Correct usage in both speaking and writing will be emphasized. Literature will include short stories, drama, and novels. The development of a thesis with supporting details will be taught. Students may be required to purchase additional reading materials.

#### Advanced English 9

Credit: 1 (weight .50)

Length: 18 weeks, block

Prerequisite: Attainment of a B or better in English 8, or a B- or better in Advanced English 8.

This is a course in language, literature, and composition for college-bound students. Students in this course should be good readers and able to express themselves in writing. Enhanced writing and research skills, including the development of a thesis and proper bibliographic format, are also part of the course. Students may be required to purchase additional reading materials. Students will be required to read at least one text prior to entering the course, which will be assessed within the first week of class.

**Honors English 9**

Credit: 1 (weight 1.0)

Length: 18 weeks, block

Prerequisite: Attainment of a B or better in Honors English 8, or an A or better in Advanced English 8.

Students who enroll in Honors English 9 should possess a solid command of grammar and sentence structure, as well as an elevated vocabulary. Previous work in English classes must illustrate an aptitude in reading many genres, both for personal interest and for literary study. Therefore, they possess strong literal and inferential skills as well as the ability to convey their ideas in formal essays. Students will complete assignments in which they exemplify comprehension and analysis of multi-genre literature, drama, poetry, classic and modern novels, and various forms of nonfiction.

**English 10**

Credit: 1

Length: 36 weeks, 1 period

This course continues the study of grammar, composition, vocabulary, and various forms of literature. It will also extend the research skills to include gathering and organizing of information. Students may be required to purchase additional reading materials.

**Advanced English 10**

Credit: 1 (weight .50)

Length: 18 weeks, block

Prerequisite: Attainment of a B or better in English 9, or a B- or better in Advanced English 9.

This is a course in language, literature, drama, and composition and is recommended for the college-bound student. The class will emphasize critical thinking and interpretive skills, including a comprehensive study of usage as applied to writing, and focus on the development of the five-paragraph composition. Students may be required to purchase additional reading materials. Students will be required to read at least one text prior to entering the course, which will be assessed within the first week of class.

**Honors English 10**

Credit: 1 (weight 1.0)

Length: 36 weeks, 1 period

Prerequisite: Teacher recommendation

This year long, academically rigorous course, taught chronologically, emphasizes critical thinking and interpretive skills through essay and oral work. Students will read and write critically, with a focus on analysis and synthesis. Selections reflect major literary movements and important authors in the American literary canon. This class prepares students for AP Language and Composition and AP Literature and Composition.

**English 11**

Credit: 1

Length: 18 weeks, block

This chronologically-structured course surveys American Literature in historical context from the 17th century to the present. Students study standard American Language usage and work toward mastering language skills. Research work will include further development of a thesis and also organization of the topic. Students may be required to purchase additional reading materials.

**Advanced English 11**

Credit: 1 (weight .50)

Length: 18 weeks, block

Prerequisite: Attainment of a B or better in English 10, or B- or better in Advanced English 10.

This chronologically-structured course surveys American Literature in historical context from the 17th century to the present. Selections reflect major literary movements and important authors in the American literary canon. Advanced English is intended for college-bound students and builds on critical reading, writing, and thinking skills developed in Advanced English 10.

**English 12**

Credit: 1

Length: 18 weeks, block

This course builds upon previous years of the traditional approach to English to provide the necessary skills for success in college or career. Students will read a variety of works related to British literature including short stories, novels, drama, and poetry. Students will continue to expand their composition skills with expository, narrative, technical, persuasive, and research writing.

**College Prep English 12**

Credit: 1

Length: 18 weeks, block

Prerequisite: Attainment of a B or better in English 11, or a C+ or better in Adv. English 11.

This course continues to build on critical reading, writing, and thinking skills developed in previous English courses. Because of the content and format, students expecting to excel must consistently exercise work ethic, preparedness for class and mastery of content. This is a writing intensive course based on the study of literature and non-fiction. Analysis, synthesis, and collaborative learning are emphasized. Successful completion of a major research paper is required for this course. Students may be required to purchase additional reading materials.



**LCCC ENGL 161 & LCCC ENGL 162****COMET COLLEGE****College Composition I & II - CCP**

Credit: 2 (6 LCCC credits) (weight 1.0)

Length: 18 weeks, block

Prerequisite: Prerequisite: Satisfactory placement assessment score.

An introduction to fundamental college-level skills in academic reading and writing. Summary, analysis, synthesis, argumentation, and research are emphasized, along with critical thinking and collaborative learning. LCCC ENGL 162 is a writing course continuing the practice of skills introduced in ENGL 161, as well as strategies of argumentation and secondary research leading to a research paper. Students may have to purchase additional reading materials.

**LCCC ENGL 255 & LCCC ENGL 257****COMET COLLEGE****Introduction to Fiction and Introduction to Poetry - CCP**

Credit: 2 (6 LCCC credit hours) (weight 1.0)

Length: 18 weeks, block

Prerequisite: ENGL 161

Intended for the college-bound student, this combined course incorporates a study of short stories and novels to acquaint the general student with important themes and critical perspectives applicable to fiction, as well as a critical study of selected poetry designed to clarify the nature and significance of Western dramatic literature. Students may have to purchase additional reading materials.

**AP English 11 Language & Composition**

Credit: 1 (weight 1.0)

Length: 36 weeks, 1 period

Preliminary reading of literature is required. This course will follow the AP College Board guidelines. An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. Students must purchase additional reading materials. **AP examination is required to receive course credit (approximately \$85.00).**

## **AP English 12 Literature & Composition**

Credit: 1 (weight 1.0)

Length: 36 weeks, 1 period

AP English Literature and Composition will focus on European literature and be teamed with the AP European history course. It is strongly recommended that students schedule for both classes. The two AP classes integrate content and assessments in order to lessen the demand on the students and allow for more critical insight and inquiry. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. Students read deliberately and thoroughly, taking time to understand a work's complexity, to absorb its richness of meaning, and to analyze how that meaning is embodied in literary form. In addition to considering a work's literary artistry, students reflect on the social and historical values it reflects and embodies. Careful attention to both textual detail and historical context provides a foundation for interpretation. Writing assignments focus on critical analysis of literature and include argumentation and research. Although critical analysis makes up the bulk of student writing for the course, well-constructed creative writing assignments help students see from the inside how literature is written. The goal of both types of writing assignments is to increase students' ability to explain clearly, cogently, even stylistically, what they understand about literary works and why they interpret them as they do. Preliminary reading of literature is required. This course will follow the AP College Board guidelines. **AP examination is required to receive course credit (approximately \$85.00).**

## **English Department Electives**

### **Creative Writing**

Credit: .50

Grades: 10,11,12

Length: 18 weeks, 1 period

This course is designed for students who wish to go beyond expository writing. Daily writings, short stories, essays, poetry, satire, fables and other types of writing will be explored. Writing will vary from short poems to essays to short stories. The course includes analysis of literary models (professional writings in each genre), individual and class criticism of work in a workshop mode, and discussion of literary techniques in each genre.

### **Drama**

Credit: .50 Fine Arts Elective

Grades: 9,10,11,12

Length: 18 weeks, 1 period

Drama meets the fine arts requirement for graduation. It is a course designed to introduce students to the various elements of the theatre and to encourage students in further participation. Students will examine and study beginning acting techniques and theatre appreciation. Students will also learn the basic approach to working comfortably on the stage, through warm-ups, monologues, scene work, and improvisation. Basic techniques of movement, voice and diction, character development, and performance will be taught. Students will end the semester with the production of a children's play. Students will be required to view and analyze one theatrical production during the semester. This course is hands-on and requires students to speak and perform often in front of the classroom.

**Oral Communication**

Credit: .50 Fine Arts Elective

Grades: 9,10,11,12

Length: 18 weeks, 1 period

Oral communications meets the fine arts requirement for graduation. The course is designed to develop each student's ability to communicate effectively in his or her academic, business, and social life. Course topics include the foundations of communication (perception, language, nonverbal communication), interpersonal communication, small group communication, public speaking, interviewing, and oral interpretation. The course emphasizes preparing, selecting, organizing, and delivering oral and written messages, as well as analyzing and evaluating the speaking - listening process. Students will study communication skills, understand the communication choices they can make, and evaluate the consequences of those choices. This course is hands-on and requires students to speak often in front of the classroom.

**Yearbook**

Credits: 1

Grades: 9,10,11,12

Length: 36 weeks, 1 period

Students will be responsible for all aspects of yearbook publishing including writing feature stories, gathering information, designing pages, covering events and organizations, sales, advertising, and promotions. Students will have opportunities to accept leadership positions such as editor, business manager, and sales director while developing critical thinking, problem solving, management, and team building skills. In addition, students will explore and develop skills in journalism writing, reporting, and interviewing. Students will learn about photojournalism while developing an understanding in journalism law and ethics, journalism culture and types, and journalism occupations. Students are responsible for producing the *Amherstonian*. Independent study available with instructor permission. This class is a yearlong commitment. Additional fees may apply.

# Mathematics

## Suggested Math Tracks

Comprehensive	Advanced	Honors/AP
Algebra 1	Algebra 1	Algebra 1
↓	↓	↓
Geometry	Advanced Geometry	Advanced Geometry
↓	↓	↓
Algebra 2	Advanced Algebra 2	Advanced Algebra 2
↓	↓	↓
Senior Math or College Prep Math or Statistics or Precalculus	Precalculus or College Credit Plus Offerings	Precalculus or College Credit Plus Offerings
	↓	↓
	Calculus 1	AP Calculus AB

## Mathematics Course Descriptions

### Algebra 1

Credit: 1

Length: 36 weeks, 1 period

Algebra 1 is a study of the Algebra 1 Common Core Standards. The course will focus on these standards and prepare the student for Geometry. Emphasis will be placed on solving equations, graphing linear equations and quadratics, and the simplification of expressions.

### Geometry

Credit: 1

Length: 36 weeks, 1 period

Prerequisite: Algebra 1

Geometry is a study of the Geometry Common Core Standards. The course will focus on these standards and prepare the student for Algebra 2. The focus will be placed on properties of lines, and similar triangles, quadrilaterals, circles, and solid figures.

### **Advanced Geometry**

Credit: 1 (weighted .5)

Length: 36 weeks, 1 period

Prerequisite: Recommendation of Algebra 1 teacher

Advanced Geometry is a rigorous study of the Geometry Common Core Standards. The focus will be placed on properties of lines, congruent and similar triangles, quadrilaterals, circles, and solid figures. All Geometry and a few additional concepts will be covered at an *accelerated pace and more in-depth*.

### **Algebra 2**

Credit: 1

Length: 18 weeks, block

Prerequisite: Geometry, Algebra 1

Algebra 2 is a study of the Algebra 2 Common Core Standards. The focus will be on linear, quadratic, exponential, logarithmic, and rational functions and their graphs. The emphasis will be improving students abilities to provide algebraic solutions to difficult problems. A graphing calculator is required for this course.

### **Advanced Algebra 2**

Credit: 1 (weighted .5)

Length: 18 weeks, block

Prerequisite: Advanced Geometry and recommendation of Geometry teacher

Advanced Algebra 2 is a *rigorous* study of the Algebra 2 Common Core Standards. The focus will be on a linear, quadratic, exponential, logarithmic, and rational functions and their graphs. All College Algebra 2 and a few additional concepts will be covered at an *accelerated pace and more in-depth*. A graphing calculator is required for this course.

### **Senior Math**

Credit: 1

Length: 18 weeks, block

Prerequisite: Algebra 2 and recommendation of Algebra 2 teacher

This course is intended for the student needing algebra refresher and consumer math skills. The topics studies are basic math skills, linear equations, absolute value, exponents, functions, using formulas, budgeting, understanding credit, taxes, independent living expenses, insurance and investments.

### **College Prep Math**

Credit: 1

Length: 18 weeks, block

Prerequisite: Algebra 2

College Prep Math is an alternative mathematics course for college bound students. The focus will be on College Readiness Standards and the 4th year Common Core Standards. Topics will include sequences, trigonometry, probability, functions, and matrices.

## **Statistics**

Credit: 1

Length: 18 weeks, block

This course provides an introduction to statistical thinking and statistical methods. The topics discussed in the course include: data collection, data description, basic probability, sampling distributions. Confidence intervals and hypothesis tests. An emphasis is placed on using technology to solve problems. For the student who has passed Algebra 2 and is looking for nontraditional math class.

## **Precalculus**

Credit: 1

Length: 18 weeks, block

Prerequisite: College Algebra 2

Precalculus is a study of third year algebra concepts necessary to prepare students for a Calculus course including advanced functions, matrices, and trigonometry. A graphing calculator is *required* for this course.

## **Calculus**

Credit: 1 (weighted .5)

Length: 18 weeks, block

Prerequisite: Precalculus or Advanced Precalculus.

Calculus is a study of Differential Calculus which is the branch of mathematics that deals with motion and continuously changing quantities. Concepts will be approached numerically, graphically, and algebraically. A graphing calculator is *required* for this course.

## **AP Calculus AB**

Credit: 1 (weight 1.0)

Grades: 11,12

Length: 36 weeks, 1 period

Prerequisite: Precalculus. Calculus is NOT expected or required as a prerequisite.

Calculus topics covered will be functions and limits, differentiation, and integration. The successful student will be one who is highly motivated and has been very successful in earlier mathematics courses. Students looking for advanced work in preparation for a STEM major such as engineering would be well-advised to consider this course. Fee required. **AP examination is required to receive course credit (approximately \$85.00).**

## **LCCC MTHM 168**

**COMET COLLEGE**

### **Statistics - CCP**

Credit: 1 (3 LCCC credits) (weight 1.0)

Length: 18 weeks, 1 period

Prerequisite: Satisfactory placement assessment score.

This course provides a non-calculus based introduction to statistical thinking and statistical methods. The topics discussed in the course include: data collection, data description, basic probability, sampling distributions, probability distributions, confidence intervals and hypothesis tests. An emphasis is placed on using technology to solve problems involving real data and hands-on projects are used throughout the course.

**LCCC MTHM 171****COMET COLLEGE****College Algebra - CCP**

Credit: 1 (4 LCCC credits) (weight 1.0)

Length: 18 weeks, 1 period

Prerequisite: Satisfactory placement assessment score.

Study of algebraic functions, equations, systems of equations, inequalities, matrices, partial fractions, exponential and logarithmic functions. Designed primarily for the calculus-bound student. A graphing calculator is required.

**LCCC MTHM 172 - PRECALCULUS****COMET COLLEGE**

Credit: 1 (3 LCCC credits) (weight 1.0)

Length: 18 weeks, block

Prerequisite: Satisfactory placement assessment score.

For the calculus-bound student. This course replaces Advanced Precalculus in the course sequence. A study of trigonometric functions and their graphs; trigonometric identities and equations; conic sections; polar parametric equations; mathematical induction; and Binomial Theorem. A graphing calculator is required.

**Math Department Electives****Computer Science**

Credit: 1 (weighted .5)

Length: 18 weeks, block

Prerequisite: Algebra 2

This is an introductory (learn to code) course in computer science with an emphasis on building functional and object-oriented programs in Java. Students will learn how to code using problem solving techniques and algorithmic designs. Topics include data types, looping (controlled, conditional, and indefinite), parameters and objects, graphics, file processing, and arrays.

## Science

### Suggested Science Tracks

Comprehensive	Advanced	Honors/ AP
Physical Science	Physical Science	Advanced Physical Science
↓	↓	↓
Biology	Biology	Chemistry or Advanced Chemistry
↓	↓	↓
Department Electives*	Chemistry	Advanced Biology
↓	↓	↓
Department Electives*	College Credit Plus Offerings or Physics or Department Electives*	College Credit Plus Offerings or AP Biology or AP Chemistry or AP Physics C

\*Astronomy, Biomimicry, Earth and Environment, Forensic Science, Practical Science

### Science Course Descriptions

#### Physical Science

Credit: 1

Grade: 9

Length: 36 weeks, 1 period

Physical Science is a course that focuses on the basic principles of chemistry and physics and their application to daily life. It provides the foundation for the study of more advanced topics. Labs are included to provide the opportunity for students to perform practical studies. Topics include the classification of matter, atoms, bonding & compounds, periodic trends of the elements, reactions of matter, conservation of energy, transfer/transformation of energy, waves, thermal energy, electricity, motion, forces, and dynamics. Fee required.



**Advanced Physical Science**

Credit: 1 (weight .5)

Grade: 9

Length: 18 weeks, block

This course is designed for high achieving students that want to explore the concepts of physical science. Students will be encouraged to explore the relationship between science and everyday life. This course will include labs, an independent study project, and group projects. Topics covered include the classification of matter, atoms, bonding & compounds, periodic trends of the elements, reactions of matter, conservation of energy, transfer/transformation of energy, waves, thermal energy, electricity, motion, forces, dynamics and the universe. A student taking Advanced Physical Science should have excellent math skills (successful completion of Algebra 1 recommended) and be an independent learner. Fee required.

**Biology**

Credit: 1

Grades: 10,11,12

Length: 36 weeks, 1 period

Prerequisite: Physical Science

This class is an interactive lab-oriented class that encourages and fosters critical thinking skills and problem solving. The focus of the class is on cells, heredity, evolution, diversity and interdependence of life. Fee Required.

**Chemistry**

Credit: 1

Grades: 10,11,12

Length: 18 weeks, block

Prerequisite: Physical Science, Algebra 1 (C or higher recommended)

Topics include atomic structure, periodic table, intermolecular chemical bonding, representing compounds, and quantifying matter, phases of matter, chemical reactions, gas laws, stoichiometry, and nuclear reactions. Lab is an important part of Chemistry. Fee required.

**Advanced Chemistry**

Credit: 1 (weight .5)

Grades: 10,11,12

Length: 18 weeks, block

Prerequisite: Physical Science, Algebra 1 (C or higher recommended)

Students will study atomic structure, periodic table, intermolecular chemical bonding, representing compounds, quantifying matter, phases of matter, intermolecular chemical bonding, chemical reactions, gas laws, stoichiometry, and nuclear reactions. For students considering entering the medical field, engineering, chemistry or other science careers we will also study gas laws, chemical bonding, chemical energies, thermal chemistry, stoichiometry, solutions chemistry. Fee required.

**AP Chemistry**

Credit: 1 (weight 1.0)

Grades: 11,12

Length: 36 weeks, 1 period

Students entering the medical fields, engineering, chemistry or other science careers should take AP Chemistry. Topics include acids and bases, titrations, redox reactions, spontaneity and electrochemistry, nuclear chemistry, organic chemistry, equilibrium, rate laws, and introduction to acid/base chemistry. Fee Required. **AP examination is required to receive course credit. Approximately \$85.00 AP test fee.**

**Advanced Biology**

Credit: 1 (weight .5)

Grades: 10,11,12

Length: 18 weeks, block

Prerequisite: B or better in Chemistry or C or better in Advanced Chemistry

Topics include cells, heredity, evolution, diversity and interdependence of life. Lab is an important part of Advanced Biology 1. Fee Required.

**AP Biology**

Credit: 1 (weight 1.0)

Grades: 11,12

Length: 36 weeks, 1 period

Prerequisite: Advanced Chemistry and Advanced Biology; Chemistry and Biology

There are four Big ideas investigated throughout the year which focus on evolution, homeostasis, genetics, and ecology. This is a student -centered class where student groups will work collaboratively to build models, complete projects and perform labs in order to ensure an enduring understanding of essential knowledge and science practices. There is a large laboratory component making up more than 25% of the course. Labs are inquiry-based and students are required to design and execute their experiments. This course is taught with the same rigor and high standards of a college level biology course. Fee required. **AP examination is required to receive course credit. Approximately \$85.00 AP test fee.**

**LCCC BIOG 121****Anatomy and Physiology****COMET COLLEGE**

Credit: 1 (4 LCCC credits) (weight 1.0)

Grades: 11,12

Length: 18 weeks, block

Prerequisite: Chemistry and Biology

This course offers an introduction to cell biology and histology, as well as an in-depth study of the following human organ systems: integumentary, skeletal, muscular, nervous (including special senses), and endocrine. Fee required.

## **LCCC BIOG 122**

### **Anatomy and Physiology**

**COMET COLLEGE**

Credit: 1 (4 LCCC credits) (weight 1.0)

Grades: 11,12

Length: 18 weeks, block

Prerequisite: LCCC BIOG 121

The structure and function of the following human organ systems are examined: reproductive (including embryology and fetal development). Digestive, cardiovascular, lymphatic (including immunity), respiratory, and urinary (including fluid/electrolyte and acid/base balance). Fee required.

### **Physics 1**

Credit: 1

Grades: 11,12

Length: 18 weeks, block

Prerequisite: Algebra 2

By conducting investigative labs, students will learn scientific techniques as well as fundamental principles of physics in motion, Newton's Laws, momentum & impulse, projectiles, rotational motion, and energy. Class is active with no lecture. Ideas are developed through lab work and practice problems and then deployed in various situations that include practical labs and problem solving. Students who intend to go on to work in engineering, science, and medicine should seriously consider the course. Fee required.

### **AP Physics C (Mechanics)**

Credit: 2 (weight 1.0)

Grades: 11,12

Length: 36 weeks, 1 period

Prerequisite: Pre Calculus. Calculus is NOT expected or required as a prerequisite.

This course will cover the physics topics of Mechanics: motion, mechanical energy & rotational dynamics. Students looking for advanced work in preparation for a STEM major such as engineering would be well-advised to consider this course. TI-Nspire CX CAS calculator required. Fee required. **AP examination is required to receive course credit. Approximately \$85.00 AP test fee.**

### **Physics 2**

Credit: 1

Grades: 11, 12

Length: 18 weeks, block

Prerequisite: Physics 1 or currently enrolled in AP Physics

How does your cell phone work? Find out the answer learning electromagnetism, waves, sound and optics. Fee required.

## Science Department Electives

### **Astronomy**

Credit: 1

Grades: 11,12

Length: 18 weeks, block

This course will focus on the history of astronomy, the earth, moon, sun and other objects in our solar system. The interactions between the sun/earth/moon system, planetary processes, galaxy formation and the origins of the universe are all examined. An emphasis will be placed on recent astronomical discoveries. Finally, observational astronomy will also be covered.

### **Earth and the Environment**

Credit: 1

Grades: 11,12

Length: 18 weeks, block

This class integrates aspects of Geology, Ecology, and Environmental Science to form a better understanding of the environment in which we live. Understanding environmental issues is essential to sustaining our quality of life on Earth. Topics will include geologic principles such as plate tectonics, earthquakes, volcanoes, mountain building, various geologic environments, natural cycles of our planet, ecology, bioversity, comparative anatomy, environmental health and human impact on the environment such as pollution and global warming. Fee required.

### **Forensic Science**

Credit: 1

Grades: 11,12

Length: 18 weeks, block

Prerequisite: Biology

Forensic Science is the application of science to criminal and civil laws that are enforced by police agencies in a criminal justice system. It is a comprehensive subject incorporating biology, chemistry, physics, entomology, earth science, anatomy and physiology as well as other aspects of science. Major topics include processing a crime scene, collecting and preserving evidence, identifying types of physical evidence, organic and inorganic analysis of evidence, hair, fibers, and paint, toxicology, arson, serology, DNA, fingerprints, firearms, and document analysis. This course combines basic theory and real laboratory experiments. Students will be asked to read, research, hypothesize, interview, compute and use deductive reasoning to propose crime solutions. Students will record data, draw conclusions, and formulate the best method for communicating results. Fee required.

### **Practical Science**

Credit: 1

Grades: 11,12

Length: 18 weeks, block

How Things Work - Like Music? It's practical science! Ever use a cell phone? It's practical science! Ever won a tug of war? It's practical science! Spend every day DOING science. Learn how physics concepts are in the world around you. Topics include force and motion, fluids and thermodynamics, waves and sound, and electricity and magnetism. This course meets the requirement as a physics course for an Honors Diploma. Fee required.

**Biomimicry**

Credit: 1

Grades: 11,12

Length: 18 weeks, block

Prerequisite: Biology

Biomimicry is the practice of looking to nature for strategies to solve human challenges. In this course, we will begin to explore the complexities of our natural systems and how we, as designers, may be able to mimic ecological principles and processes in our designs. Students will learn how engineers often imitate nature in the design of innovative new products. Demonstration of knowledge will take place by brainstorming and designing a new product based on what is known about nature. Fee required.

## Social Studies

### Suggested Social Studies Tracks

Comprehensive	Advanced	Honors/ AP
Contemporary World History	Advanced Contemporary World History	Advanced Contemporary World History
↓	↓	↓
American History	Advanced American History or CCP HSTR 162	AP United States History
↓	↓	↓
Government/Economics	Advanced Government/Economics	AP Government and Politics
↓	↓	↓
Department Electives	Department Electives or CCP HSTR 151/152	AP European History

### Social Studies Course Descriptions

#### Contemporary World History

Credit: 1

Grade: 9

Length: 36 weeks, 1 period

This course examines world events from 1600 to the present. It explores the impact of the democratic and industrial revolutions, the forces that led to the world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. The concepts of historical thinking continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.

#### Advanced Contemporary World History

Credit: 1 (weight .5)

Grade: 9

Length: 18 weeks, block

This course examines World History from the Italian Renaissance through the present day. Students will be expected to complete preparatory reading as well as actively participate in class discussion and debates. The course will emphasize the writing of Document-Based Question essays to create historical arguments using primary sources. The course is designed to prepare students for the Advanced/CCP and the AP Track.

### **American History**

Credit: 1

Grade: 10

Length: 36 weeks, 1 period

This course examines the history of the United States of America from 1877 to the present. The federal republic has withstood challenges to its national security and expanded the rights and roles of its citizens. The episodes of its past have shaped the nature of the country today and prepared it to attend to the challenges of tomorrow. Understanding how these events came to pass and their meaning for today's is the purpose of this course. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.

### **Advanced American History**

Credit: 1 (weight .5)

Grade: 10

Length: 18 weeks, block

This course examines the same topics as American History. Extra focus on higher level thinking, writing, reading, and primary source analysis will be emphasized. Thematic midterm and final projects highlight these skills with an additional local history research component.

### **AP U.S. History (APUSH)**

Credit: 1 (weight 1)

Grade: 10

Length: 36 weeks, 1 period

Prerequisite: B+ average in Advanced Contemporary World History

The Advanced Placement US History course introduces students to the study of history and examines the development and growth of the United States from the Colonial period up to the present. The course content complements the literature in Honors 10 English. This course is rigorously designed to help students understand U.S. History in the traditional context, as well as putting focus on other areas of history such as race, gender and intellectual history. The course will emphasize reading both secondary and primary sources on a wide range of topics and expect students to write extensive analytical responses to class material. It is recommended that prospective students should have at least a B+ average in Advanced Social Studies 9 and Advanced English 9 or a recommendation from their freshman teachers in both subjects. **AP Examination is required to receive course credit (approximately \$85.00).**

### **Government/Economics**

Credit: 1

Grade: 11

Length: 18 weeks, block

Government examines constitutional issues derived from a historical perspective as they apply to current issues. The skills developed are those that prepare students for active and effective participation in civic life. Economics examines components of different economic systems using contemporary systems as a guide for understanding.

### **Advanced Government/Economics**

Credit: 1 (weight .5)

Grade: 11

Length: 18 weeks, block

Prerequisite: B average in Advanced American History

Government examines the basic principles of the U.S. Constitution as a primary document, constitutional issues derived from a historical perspective as they apply to current issues, the structure and functions of the federal, and Ohio's state and local governments, as well the role of people. Government also examines national and international affairs. Thinking and writing skills will be developed through an emphasis on current and historical political issues, while debate and writing are emphasized. Economics examines components of different economic systems using contemporary systems as a guide for understanding, fiscal and monetary policies and economic regulations and alternatives, global issues and events that influence activities, and economic and financial literacy for individuals and nations. Economics also examines saving, investing, employment, money-management, and credit & debt.

### **AP Government and Politics**

Credit: 1 (weight 1.0)

Grades: 11,12

Length: 36 weeks, 1 period

AP Government and Politics is designed as an equivalent to one-semester introductory college American Government course. Students study general concepts used to interpret U.S. government and politics and analyze specific topics, including: Constitutional Underpinnings, Political Beliefs and Behaviors, Political Parties, Interest Groups, Mass Media, Institutions of National Government, Public Policy, Civil Rights, and Civil Liberties. An integral part of the course includes analysis and interpretation of basic data relevant to U.S. government and politics, and the development of connections and application of relevant theories and concepts. **AP examination is required to receive course credit (approximately \$85.00).**

### **AP European History**

Credit: 1 (weight 1.0)

Grade: 12

Length: 36 weeks, 1 period

This course explores European History from the origins of humanity through the present day. The course focuses on building and developing college level academic analysis, historical thinking skills, and particularly writing. The curriculum is teamed with AP English 12, and both courses require the same outside reading, major papers and projects. It is recommended that students enrolled in AP European History also enroll in AP English 12. **AP examination is required to receive course credit. (approximately \$85.00)**



## Social Studies Department Electives

### **Psychology/Sociology**

Credit: 1

Grades: 11,12

Length: 18 weeks, block

This elective course is for the highly motivated and college bound Junior and Senior. This course will introduce students to the study of behavior, mental processes (thinking/feeling) along with social (group) interactions. We will be exploring many of the major fields of psychology and sociology. For many students, the study of psych/soc is very different from other subjects they have studied. This course requires students to think abstractly and to learn by applying the questioning both the theories studied and their own experiences. Students should expect significant reading, writing, experiments/activities and projects throughout the course.

### **Military History** (ON CYCLE- Will be offered in 2020-2021)

Credit: .50

Grades: 11,12

Length: 18 weeks, 1 period

This class will explore the history of warfare including the development of new technologies, the social impact of these technologies, and the implement of new techniques of the battlefield. The class will use many different resources such as videos along with primary and secondary sources as tools for better understanding. By the end of the class, students will be able to grasp the reasons for military actions and technological advancements and the long lasting effects of those actions. The class will culminate with a final paper and presentation on a selected technology.

### **Introduction to Philosophy** (ON CYCLE- Will be offered in 2020-2021)

Credit: .50

Grades: 9,10,11,12

Length: 18 weeks, 1 period

Whereas other disciplines hope to discover fact, Philosophy is the search for truth. Philosophy relies on open-minded thinking, the composition of rational arguments, and positive communication. This course will familiarize students with a general understanding of the big questions in the field of Philosophy, impart and understanding of the most important philosophers from each field, and teach students to apply various argumentative principles to in class discussion of the big questions.

The course will be organized around the major areas of Philosophy including:

- A. Logic - Study of reasoning and argument.
- B. Epistemology - study of knowledge and knowing
- C. Metaphysics - Study of reality, existence, time, mind and body, and object properties
- D. Ethics - Study of the best way to live, morality
- E. Political Philosophy - Study of government and how individuals relate to the state
- F. Aesthetics - Study of beauty, art, enjoyment, and taste

Students will be expected to read philosophical text, participate in class discussion and debates, and compose a final project.

**20th Century American Pop Culture** (ON CYCLE- Will be offered in 2020-2021)

Credit: .50

Grades: 10,11,12

Length: 18 weeks, 1 period

The 20th Century American Pop Culture course will explore the major cultural themes of the 20th century. Themes to be explored would include the following: Jim Crow, World War I, jazz Age, Roaring Twenties, progressivism, Great Depression, World War II, Cold War/ Anti-Communism, Rock and Roll, Civil Rights, Vietnam/Counterculture, Liberation Movements, Watergate, Technology and Black Culture. The course will be divided into nine, two-week units that would utilize films and music to underscore the changes of American culture.

**20th Century American History through Sports** (OFF CYCLE- Not offered until 2021-2022)

Credit: .50

Grades: 10,11,12

Length: 18 weeks, 1 period

This course examines the place sports hold in American life in the 20th Century and beyond. It is designed to address both the supplemental student's understanding and American History and to examine the role that sports has played in shaping contemporary society. Close attention will be made to the context of sports, as it relates to the economic and social environment. It studies how sports make an impact on society through issues and controversies. This course examines famous athletes teams and events throughout the decades on the 20th century.

**World Geography** (OFF CYCLE- Not offered until 2021-2022)

Credit: .50

Grades: 9,10,11,12

Length: 18 weeks, 1 period

This course builds on students understanding of geography and spatial thinking. Contemporary issues are explored through the lens of geography. In addition to the understanding where physical and cultural features are located and why those features are located as they are, students examine the implications of these spatial arrangements.

**World Religions** (OFF CYCLE- Not offered until 2021-2022)

Credit: .50

Grade: 9,10,11,12

Length: 18 weeks, 1 period

An introduction to the major religions including Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity and Islam. The course explores the historic context, beliefs and practices of each. Includes readings from primary texts.

**LCCC HIST 151 & LCCC HIST 152****COMET COLLEGE****Civilizations 1 & 2 - CCP**

Credit: 2 (6 LCCC credits) (weight 1.0)

Length: 18 weeks, block

The first half of this course will cover the development of the historical, political, economic, cultural, religious and institutional patterns of society from ancient civilizations to 1500. The second half of this course will cover the development of the historical, political, economic, cultural, religious, and institutional patterns of society from 1500 to the present. Research and writing using Chicago manual of Style will be expected. During each half of the class, students will research historical themes as they connect to current events.

**LCCC HIST 162 (OFF CYCLE- Not offered until 2021-2022)****COMET COLLEGE****United States 2 - CCP**

Credit: 2 (3 LCCC credits) (weight 1.0)

Length: 18 weeks, block

A political, economic, diplomatic, social, cultural, and intellectual survey of the United States from the end of Reconstruction to the present. This course examines the same topics as Advanced American History but will require collegiate reading and writing assignments.