

*North Ridgeville City Schools*  
*Grades 9 – 12*  
*Program of Studies*



*2020 - 2021*

THE PROGRAM OF STUDIES IS PUBLISHED AND PREPARED BY THE HIGH SCHOOL ADMINISTRATORS, COUNSELORS, AND TEACHERS. THE PURPOSE OF THIS PROGRAM OF STUDIES IS TO INFORM STUDENTS ABOUT COURSE REQUIREMENTS NEEDED TO SUCCESSFULLY MEET THE GRADUATION REQUIREMENTS OF THE NORTH RIDGEVILLE CITY SCHOOLS BOARD OF EDUCATION. DURING THE PERIOD OF COURSE SELECTION, TEACHERS AND COUNSELORS, WORKING TOGETHER WITH PARENTS AND STUDENTS, WILL HELP TO DEVELOP THE BEST ACADEMIC SCHEDULE POSSIBLE FOR EACH STUDENT ATTENDING NORTH RIDGEVILLE HIGH SCHOOL.

NORTH RIDGEVILLE CITY SCHOOL DISTRICT VISION: EMPOWERING STUDENTS TO DESIGN THEIR PREFERRED FUTURE.

NORTH RIDGEVILLE CITY SCHOOL DISTRICT MISSION: THE NORTH RIDGEVILLE SCHOOL DISTRICT, AN INNOVATIVE AND COLLABORATIVE DISTRICT, FOCUSES ON THE DEVELOPMENT OF THE WHOLE CHILD TO ENSURE SUCCESS.

**BOARD OF EDUCATION MEMBERS**

FRANK VACHA, PRESIDENT  
MARCI SAXON, VICE PRESIDENT  
KRISTEN IEZZI, MEMBER  
KELLY MCCARTHY, MEMBER  
JOANNA TIMURA, MEMBER

**NORTH RIDGEVILLE HIGH SCHOOL**

440.327.1992

THOMAS SZENDREY, PRINCIPAL  
PETREA BIANCA, ASSISTANT PRINCIPAL  
BRADLEY JARRETT, ASSISTANT PRINCIPAL  
ANTOINETTE HOSTETLER, DIRECTOR OF  
ALTERNATIVE EDUCATION

**ADMINISTRATION**

440.327.4444

ROXANN RAMSEY-CASERIO, SUPERINTENDENT  
PATRICK EAST, INTERIM-TREASURER  
KEITH AHEARN, ASSISTANT SUPERINTENDENT  
JULIE D'ALIBERTI, DIRECTOR OF PUPIL PERSONNEL  
DAVID PRITT, DIRECTOR OF CURRICULUM AND  
INSTRUCTION  
MATTHEW YUNKER, DIRECTOR OF OPERATIONS

**COUNSELORS**

440.327.4385

AMBER HUNKER, STUDENTS A-G  
LORA BAKER, STUDENTS H-O  
KATHLEEN BREDIGER, STUDENTS P-Z

The Board of Education has a policy of non-discrimination on the basis of race, color, national origin, sex or handicap. The district has adopted Title IX and Section 504 of the Ohio Revised Code on grievance procedures to resolve complaints of alleged discrimination on the basis of sex or handicap. The Title IX Coordinator and the Section 504 Coordinator is the Director of Curriculum and Instruction.

## TABLE OF CONTENTS

Planning a Program of Study.....	4
Diploma with Honors Requirements.....	5
Grading Information .....	6
Athletic Eligibility and NCAA Eligibility .....	7
NCAA Approved Core Courses .....	8
Guidance Services.....	9
The College Admission Process.....	10
Academic Options .....	11
Schedule Information and Fees .....	14
Information Regarding Schedule Changes.....	15
NRHS Course Descriptions .....	16
Advanced Placement Capstone Program.....	16
Art.....	17
Business Technology .....	20
English/Language Arts .....	24
Family and Consumer Science .....	29
Health and Physical Education.....	34
Industrial Technology.....	35
Mathematics .....	38
Music .....	42
Science.....	46
Social Studies.....	50
World Languages.....	54

## PLANNING A PROGRAM OF STUDY

### GRADUATION REQUIREMENTS

4 credits English  
1 credit World History  
1 credit American History  
1 credit American Government  
 $\frac{1}{2}$  credit Economics  
4 credits Mathematics\*  
3 credits Science  
 $\frac{1}{2}$  credit Health  
 $\frac{1}{2}$  credit Physical Education  
 $\frac{1}{2}$  credit Personal Finance\*\*  
1 credit Fine Art\*\*\*  
5 credits Electives  
22 credits

\* Must include 1 credit of Algebra 2.

\*\* Introduction to Business, Personal Finance, or Living on Your Own will fulfill this requirement.

\*\*\* Fine Art includes any course offered within the Art or Music Departments. Course requirement beginning with the Class of 2022.

1. In order to participate in commencement activities and receive a high school diploma, a student must successfully complete all credit requirements and pass the Ohio Department of Education testing requirements.
2. The best high school program of study is one planned by the student, his/her parents, and the counselor.
3. Students who complete two seasons of an Ohio High School Athletic Association sport or two seasons of marching band will be eligible for the Physical Education credit requirement to be waived.
4. Career Technical students attending the Lorain County Joint Vocational School will meet the requirement of American Government, Economics, and Personal Finance through successful completions of the Civics/Government course offered at the Lorain County Joint Vocational School. Fine Arts is not a requirement for Career Technical students.

## DIPLOMA WITH HONORS REQUIREMENTS

Students need to fulfill all but one of the following criteria.

<b>Subject</b>	<b>Academic Honors Diploma</b>
<b>Mathematics</b>	Students need to fulfill 7 of the 8 criteria 4 units, including Algebra 1, Geometry, Algebra 2 or the equivalent and another higher level course or a four-year sequence of courses that contain equivalent content
<b>Science</b>	4 units, including 2 units of advanced science
<b>Social Studies</b>	4 units
<b>World Language</b>	3 units (must include no less than 2 units for which credit is sought), i.e., 3 units of one language or 2 units each of two languages
<b>Fine Arts</b>	1 unit
<b>Grade Point Average</b>	3.5 on a 4.0 scale (unweighted)
<b>ACT/SAT Score [excluding scores from the writing sections]*</b>	27 ACT / 1280 SAT

Diploma with Honors requirements pre-supposes the completion of all high school diploma requirements in the Ohio Revised Code and of the North Ridgeville City Schools Board of Education.

The Ohio Department of Education has created other Honors Diplomas. Navigate to <http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements/Honors-Diplomas> in order to view additional options. If you are interested in earning another Honors Diploma, you must meet with your counselor to confirm eligibility.

## GRADING INFORMATION

<b>Regular Classes</b>				<b>Honors Classes</b>			
<u>Grade</u>	<u>Percent</u>		<u>Quality Points</u>	<u>Grade</u>	<u>Percent</u>		<u>Quality Points</u>
A	93	- 100	4.00	A	93	- 100	5.00
A-	90	- 92	3.67	A-	90	- 92	4.67
B+	87	- 89	3.33	B+	87	- 89	4.33
B	83	- 86	3.00	B	83	- 86	4.00
B-	80	- 82	2.67	B-	80	- 82	3.67
C+	77	- 79	2.33	C+	77	- 79	3.33
C	73	- 76	2.00	C	73	- 76	3.00
C-	70	- 72	1.67	C-	70	- 72	2.67
D+	67	- 69	1.33	D+	67	- 69	1.33
D	63	- 66	1.00	D	63	- 66	1.00
D-	60	- 62	0.67	D-	60	- 62	0.67
F	0	- 59	0.00	F	0	- 59	0.00

If a student scores above the top limit for a percentage by any fraction of .5 or more, the next highest letter grade will be considered achieved (e.g., 89.5% = A-). The teacher may elect to skew grades on a class curve as long as the skewing of grades does not exceed the percentage listed above.

### **Criteria for Grade Averaging:**

- The nine weeks grades are weighted 4 times their quality point value and the exam is at face value. ( $4/9 + 4/9 + 1/9 = 9/9$ )
- The student must earn a minimum of two (2) passing grades, one of which may be the exam.
- If a student receives two F's, the student automatically fails.
- Credit is assigned at the end of each semester.

### **Cumulative Grade Point Average**

- The scale of quality points listed above shall be used to compute the cumulative grade point average (GPA). The cumulative grade point average shall be used to determine qualification for scholarships and awards, and other honors.
- Transfer students shall be awarded weighted credit only if that course or its equivalent receives a weighted grade in North Ridgeville City Schools.
- Transfer students cannot be awarded more than five (5) quality points.

Students will be recognized on the following criteria below.

High Honor Roll	3.8 and above
Honor Roll	3.5 to 3.79
Merit Roll	3.0 to 3.49

## ATHLETIC ELIGIBILITY

All high school students MUST be enrolled in and earn passing grades in a minimum of five one-credit courses (or the equivalent) each and every grading period to have continuing eligibility. Any questions should be directed to the Athletic Director.

The eligibility or ineligibility of a student continues until the start of the fifth school day of the next grading period at which time the grades from the immediately preceding grading period becomes effective. EXCEPTION: Eligibility or ineligibility for the first grading period commences with the start of the fall sports season.

Eligibility is the responsibility of the student. Be sure to schedule classes carefully.

**For eligibility, summer school grades may not be used to substitute for failing grades received in the final grading period of the regular school year or for lack of enough courses taken the preceding grading period.**

## NCAA ELIGIBILITY

Students wishing to participate in collegiate athletics need to begin planning freshman year. The NCAA regulates student athlete participation and sets eligibility requirements that must be met in order to participate in NCAA Division I or II collegiate athletics.

- All potential student athletes must register with the NCAA Eligibility Center in 11<sup>th</sup> grade at [eligibilitycenter.org](http://eligibilitycenter.org).
- Students must carefully put their academic plans in place to ensure all requirements are met.
- All college-bound athletes must complete a minimum of 16 core courses by graduation and must obtain a minimum GPA and ACT/SAT score in order to be eligible.
- The GPA and ACT/SAT Score sliding scale may be found at the NCAA Eligibility Center website.
- The NRHS courses that are approved by the NCAA are listed on the following page.

## **NCAA Approved Core Courses at North Ridgeville High School**

### **English**

English 9  
Honors English 9  
English 10  
Honors English 10  
English 11  
English 12  
Shakespeare  
Creative Writing  
Speech  
AP English Language & Composition  
AP English Literature & Composition  
AP Research  
AP Seminar

### **Mathematics**

Algebra 1  
Geometry  
Honors Geometry  
Algebra 2  
Algebra 2A (0.5 credit)  
Algebra 2B (0.5 credit)  
Honors Algebra 2  
College Prep Math  
Pre-Calculus  
Honors Pre-Calculus  
AP Calculus

### **Science**

Physical Science  
Honors Physical Science  
Principles of Biology  
Biology  
Honors Biology

### **Science, continued**

Chemistry  
Honors Chemistry  
Physics  
Environmental Science  
Anatomy and Physiology  
Material Science of Chemistry  
AP Chemistry  
AP Physics 1 and 2

### **Social Studies**

World History  
Honors World History  
American History  
Honors American History  
American Government  
Economics  
Psychology  
Sociology  
Social and Political Issues  
AP American Government  
AP Macroeconomics  
AP European History  
AP Psychology

### **World Language**

Spanish 1  
Spanish 2  
Spanish 3  
Honors Spanish 3  
French 1  
French 2  
French 3  
Honors French 4  
American Sign Language I

\*All CCP core courses are NCAA approved.



## **GUIDANCE SERVICES**

Counselors provide the following services:

1. Counseling Service - Counselors are available to meet with you to discuss any personal or school related concerns you may have. When you feel the need to talk to someone, contact a counselor.
2. Parent Conference Service - Counselors meet with parents to inform them about their son's/daughter's progress in school. Counselors can also give parents information on a variety of subjects so that they might be better able to help their son or daughter. Please call Mrs. Amber Hunker (students with last names A-G) at 440-327-2365, Mrs. Lora Baker (students with last names H-O) at 440-327-2369 or Mrs. Kathleen Brediger (students with last names P-Z) at 440-327-2485.
3. Information Service - Current education and occupation information on career planning, colleges, technical schools, armed services, and community agencies is available in the guidance office.
4. Group Counseling Service - Several times during the school year the counselors will meet with students in groups to explain and administer tests, interpret test results, help with scheduling, discuss study skills, discuss social and emotional issues, present career information, explain the college application process and explain JVS information and guidelines.

## THE COLLEGE ADMISSION PROCESS

### Recommendations for College Preparatory Students

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

Language Arts:	4 credits
Mathematics:	4 credits
Science:	4 credits
Social Studies:	4 credits
World Language:	2 credits
Fine Arts:	1 credits

Students who are planning to attend a college need to be aware of what colleges consider as a basis for admission:

- Letters of recommendation.
- ACT or SAT scores. Students are responsible for sending scores from the testing agency to the college. Registration materials are available in the Guidance Office or online at [www.actstudent.org](http://www.actstudent.org) or [www.collegeboard.org](http://www.collegeboard.org).
- Personal interview and/or college entrance examinations.
- All students should take an ACT or SAT in the second semester of the 11<sup>th</sup> grade and it is recommended to retest at least once. All juniors will take the SAT on the mandatory SAT school day in the spring.
- Community service, school involvement, and the student as a holistic individual.

Each student in North Ridgeville High School has many opportunities to become acquainted with the college or colleges of his/her choice. Students should do the following:

- Arrange, through the guidance office, to meet with college representatives when they visit North Ridgeville High School. Visitations are announced during morning announcements, posted in classrooms and in the guidance office, and on the guidance website.
- Obtain information through [ocis.org](http://ocis.org), [Ohiomeansjobs.com](http://Ohiomeansjobs.com), [collegeboard.org](http://collegeboard.org), and [nracs.net](http://nracs.net)
- Attend area college fairs
- Check college websites
- Visit the college campus
- Complete the financial aid process
- Research application costs, procedures, tuition, room and board

## ACADEMIC OPTIONS

### HONORS/ADVANCEMENT PLACEMENT

Honors/AP Classes are characterized by the following:

**Workload** – Expectations will exceed those over other courses at the same subject/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 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

Students receive honors credit for these classes. Students who register for an AP Course are required to take the AP Exam; students who score successfully on the AP Exam may earn college credit.

### Advanced Placement Courses

Seminar	American Government	Comp. Science Principles
Research	Macroeconomics	Studio Art
Language & Comp.	Chemistry	Art History
Literature & Comp.	Physics 1	Music Theory
Psychology	Physics 2	
European History	Calculus AB	

Advanced Placement Exams are available to all students. If you are interested in taking an AP exam in a course that North Ridgeville High School does not offer, please see [www.collegeboard.org](http://www.collegeboard.org) or see your school counselor for further information.

### Honors and CCP Courses

English 9	Algebra 2	Chemistry
English 10	Pre-Calculus	KAP BIO Seminar
Spanish 3	LCCC MTHM 168	Physical Science
French 4	LCCC MTHM 158	KAP US History
LCCC FRNH 251G/252G	LCCC SDEV 102	World History
LCCC SPNH 251/252	A Cappella Choir	American History
LCCC SPNH 257G/258G	Symphonic Band	
Geometry	Biology	

## **COLLEGE CREDIT PLUS**

A student enrolled at North Ridgeville High School may be eligible to participate in the College Credit Plus Program. This is an opportunity for students to take classes at eligible post-secondary institutions. The purpose of this program is to promote rigorous academic pursuits and to provide a wider variety of options to high school students. The legislation for this program requires parents and students receive counseling regarding the program from the post-secondary site and that a letter of intent for the 2020-2021 school year be submitted to the guidance office no later than **April 1, 2020**. The completed CCP application is due in Guidance no later than **June 1, 2020**.

**IMPORTANT - To ensure that a college credit plus course meets North Ridgeville High School graduation requirements, the course must be approved by your high school guidance counselor. Students accepted into the CPP (College Credit Plus) program must complete the college placement test and work with a college advisor regarding course placement.**

Colleges and universities enrolling students reimbursed from local school funding for tuition, textbooks, materials and fees. **Parents are required to reimburse the school district for incomplete or failed College Credit Plus courses and other related charges.** Students participating in College Credit Plus will be required to provide their own transportation to and from the area college.

## **LORAIN COUNTY JOINT VOCATIONAL SCHOOL**

North Ridgeville High School students may choose to complete their junior and senior years of high school studying one of several two-year vocational programs at Lorain County Joint Vocational School (LCJVS) located in Oberlin, Ohio. Once enrolled into an LCJVS program, a student must complete the entire programming year as space for entrance into programs is competitive and limited. A student will receive a North Ridgeville High School diploma upon successful completion of the two years at LCJVS. Application to LCJVS begins in January of the 10<sup>th</sup> grade. Students should check with their counselor early in the 10<sup>th</sup> grade about the various course offerings at LCJVS, application procedures, and the credit needed.

To avoid credit deficiency, a student should have completed a minimum of the following required courses in the 9<sup>th</sup> and 10<sup>th</sup> grades:

- 2 credits of English
- 2 credits of math (Algebra and Geometry)
- 2 credits of science (Physical Science and Biology)
- 2 credits of social studies (World History and American History)
- .5 credit of health
- .5 credit of physical education
- 2 credits of electives
- 11 Total Credits*

## **CREDIT FLEXIBILITY**

Students may earn credits through:

- The completion of coursework;
- Testing out of or demonstrating mastery of course content; or
- Pursuing one or more educational options in accordance with the District's Credit Flexibility Plan.

Issuance of credit will be determined locally. Students who choose credit flexibility will complete the application and turn it in to their guidance counselor. The student and the appointed staff member will pre-identify and agree on the learning outcomes for the credit. Credits earned through this alternative means will be reflected on students' transcripts in the same way as traditional credits earned via seat time.

## **RANGER ACADEMY**

Ranger Academy is an alternative to the traditional classroom experience. Ranger Academy offers students a small learning environment and an individualized learning platform. Acceptance into the program is determined by application and/or recommendation only.

## SCHEDULING INFORMATION

Before beginning to choose your courses for next year, be sure to review the information related to required courses, graduation requirements, and college entrance recommendations.

You should be aware of the following information prior to scheduling:

1. All students in grades 9-10 must be enrolled in an average of six classes per semester.
2. All students in grade 11-12 must be enrolled in at least 5 credits for the school year.
3. The required credits for promotion are as follows:
  - Promotion to 10th grade - 5 credits
  - Promotion to 11th grade - 10 credits
  - Promotion to 12th grade - 15 credits

**Promotion to the next grade is only done in August except for those students who will meet the requirements for graduation during the current school year.**

4. If a required subject is failed, it must be repeated as soon as possible.
5. Students may not repeat courses they have already passed. The only exceptions to this rule are: Yearbook Lab, music performance classes, Video Production, Web Development, and Fabrication Lab.
6. Credits earned in an accredited high school summer program will be counted toward graduation providing the principal and your guidance counselor have given permission in advance.
7. The prerequisites listed in the Course Selection Guide represent our professional recommendations to ensure a student's success in a particular course. A parent has the option to override a prerequisite by completing a waiver.

## FEES

Students may be assessed fees for materials for classes. Also, the following miscellaneous fees may be assessed. Bills will be sent after the start of school, and payment is due upon receipt. For all students, fees must be paid before any dance ticket may be purchased.

Parking	\$20.00
Technology Fee	\$25.00
Senior Fees	\$45.00
Planners	\$ 5.00
Junior Testing Fee	\$16.00

## INFORMATION REGARDING SCHEDULE CHANGES

Course selection must be carefully considered at the time of course registration and should reflect the student's educational and vocational plans. For this reason, schedule changes are strongly discouraged and will be approved only as explained in the following policy.

1. Prior to June 1, a student, with parent permission, may change a selected course for the following school year by requesting the change in writing to the counselor.
2. From June 1 through the first day of school, the only changes that will be permitted are those which are necessary due to the failing of a course or attending and passing a course in summer school.
3. During the first three weeks of the school year, only those changes which are essential to the student's program of studies or that correct serious errors in scheduling will be considered. The following are examples of these types of changes:
  - not enough credits are scheduled
  - a prerequisite course was failed or not taken
  - a scheduled course was previously taken and passed
  - a course was requested and not received if it is available
  - a course required for promotion or graduation is not scheduled
  - there is a computer error
  - a student's previous performance indicates that he/she is scheduled at the wrong level
  - a class may be added if there is an opening
4. The Board of Education reserves the right to cancel any course or program offering due to insufficient enrollment or funding.
5. Schedules will not be changed to facilitate an early dismissal, late arrival, or privileges.

# NRHS COURSE DESCRIPTIONS

## Advanced Placement Capstone Program

---

### AP Seminar

Credit: 1  
AP Test Fee: \$20  
Open to: 10, 11, 12  
Prerequisite: Application

This course is the first course in the two-year AP Capstone program.

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances.

Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

**Students who register for this course are required to take the AP Exam.**

### AP Research

Credit: 1  
AP Test Fee: \$20  
Open to: 11, 12  
Prerequisite: AP Seminar

Course will be offered beginning with the 2019-20 school year.

This course is the second course in the two-year AP Capstone program.

This course allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

**Students who register for this course are required to take the AP Exam.**



---

## ART

---

### 2-DIMENSIONAL EXPLORATION

Credit: 1  
Fee: \$37  
Open to: 9  
Prerequisite: Teacher  
recommendation

This course is designed for freshman students who are interested in completing an art major program. Concepts of elements and principles of art are reviewed. Basic techniques and concepts through various medium (drawing, painting, etc.), are expanded upon. A sketchbook is required.

---

### ART FOUNDATIONS

Credit: ½  
Fee: \$20  
Open to: 9, 10, 11, 12

This is a comprehensive foundations course that incorporates the basic concepts of design using a wide variety of media and techniques including drawing, painting, print, and craft. Students learn to work creatively and focus on elements and principles of art and design.

---

### ADVANCED ART

Credit: 1  
Fee: \$37  
Open to: 11, 12  
Prerequisite: Art Foundations,  
and three other art electives

This course offers students the opportunity to pursue personal depth while exploring and developing their skills. Each student creates a portfolio and learns the process of exhibiting work.

---

### AP ART HISTORY

Credit: 1  
AP Test Fee: \$20  
Open to: 10, 11, 12  
Prerequisite: Teacher  
recommendation

This is an Advanced Placement course that surveys both western and eastern art history. Students may gain college credit for this course by taking the AP exam in May. Students are required to keep a notebook of lecture notes.

**Students who register for this course are required to take the AP Exam.**

---

### AP STUDIO ART

Credit: 1  
Fee: \$20  
Fee: \$25  
Open to: 10, 11, 12  
Prerequisite: Advanced Art or  
portfolio review

This course is designed for students who are seriously interested in the practical experience of art. Students will work to submit portfolios in 2D Design, 3D Design, and Drawing- corresponding to common college foundations courses. This course will be offered every other year based on enrollment. This course will be offered for the 2020-2021 school year.

**Students who register for this course are required to take the AP Exam.**

---

## **CERAMICS 1**

Credit: ½

Fee: \$28

Open to: 9, 10, 11, 12

Prerequisite: Art Foundations

This course is designed to expand concepts of art and design by using hand building and wheel thrown methods. Students will gain an in depth understanding of ceramics art, creation, and history.

---

## **CERAMICS 2**

Credit: ½

Fee: \$28

Open to: 10, 11, 12

Prerequisite: Ceramics 1

Students will learn the process of throwing clay and creating "functional" ceramic pieces. The semester is dedicated to the practice and production of multiple pieces that will result in an end of course critique.

---

## **PHOTOGRAPHY**

Credit: ½

Fee: \$45

Open to: 9, 10, 11, 12

Prerequisite: Art Foundations

Students will learn the mechanics of a camera and learn to create artwork using digital imaging. Photoshop will be explored as well as all aspects of cropping, editing, mounting, and preparatory work. This course can be repeated.

---

## **PAINTING 1**

Credit: ½

Fee: \$30

Open to: 9, 10, 11, 12

Prerequisite: Art Foundations

Emphasis upon different studio applications of painting. This will be a time when students become aware of the studio idea and of a personal vision and voice.

---

## **PAINTING 2**

Credit: ½

Fee: \$30

Open to: 10, 11, 12

Prerequisite: Art Foundations/Drawing 1

Student will learn how to select an effective and personal approach to using techniques and thematic content to develop personally meaningful paintings. Emphasis on different studio applications of painting will be refined.

---

## **DRAWING 1**

Credit: ½

Fee: \$20

Open to: 9, 10, 11, 12

Prerequisite: Art Foundations

Emphasis upon different studio applications of drawing. This will be a time when students become aware of the studio idea and of a personal vision and voice.

---

---

---

**DRAWING 2**

Credit: ½

Fee: \$20

Open to: 10, 11, 12

Prerequisite: Art

Foundations/Drawing 1

---

---

Students will work with advanced media such as pen and ink, charcoal, colored pencils, oil pastels, and mixed media while being encouraged to develop their own expression and style as well as thematic content.

---

## BUSINESS TECHNOLOGY

---

### ACCOUNTING 1

Credit: 1  
Fee: \$70  
Open to: 9, 10, 11, 12

The student will learn to apply basic accounting procedures used by business organizations. Topics include general ledger, accounts payable and receivable, banking, financial statements, payroll, inventory, and taxes. Students will learn both manual and computerized accounting skills. This is a valuable course for career and personal use.

---

### ACCOUNTING 2

Credit: 1  
Fee: \$95  
Open to: 10, 11, 12  
Prerequisite: C in Accounting 1

Accounting II provides the student with preparation for employment as an entry-level accountant. Students will focus on departmental accounting, voucher systems, general accounting adjustments and using Peachtree and QuickBooks accounting software. The course provides skills to enable the student to do further work in accounting on a college level.

---

### BUSINESS LAW

Credit: 1  
Open to: 10, 11, 12

In this course, students are given the opportunity to explore the different avenues of Business Law including: contracts, commercial transportation, bailments, sales contracts, agency, insurance, and property ownership. Students also have the opportunity to take on courtroom roles during mock trials.

---

### INTRODUCTION TO BUSINESS

Credit: 1  
Open to: 9, 10, 11, 12

In this course, students are presented an overview of the operation of our economic system and the functions of business which everyone will encounter in his/her personal life. Specific business services that are offered to the public are studied and problems are presented which help the student to develop the skill to make wise choices, to include: banking, credit, insurance, savings and investment. Consideration is given to the various careers in different work areas and the formal education, skills, and attitudes that are prerequisites for employment in these careers. This class meets the Personal Finance requirement.

---

### PERSONAL FINANCE

Credit: ½  
Open to: 9, 10, 11, 12

Personal Finance is designed to help students apply the necessary resources to achieve an independent lifestyle. This course will cover money management, Federal Income Tax, budgets, financial records, financial security, retirement, estate planning, as well as credit management, renting and purchasing property, and different types of insurance. In addition, we will use a computer simulation program to reenact real life situations. This class meets the Personal Finance requirement.

---

---

**ENTREPRENEURSHIP**

Credit: ½  
Open to: 10, 11, 12

Entrepreneurship is a class that is designed to help students evaluate the pros and cons of starting their own business. This class includes a review of economic concepts, along with an introduction to the many business functions needed by an entrepreneur. These concepts include but are not limited to, marketing, management, and record keeping. Throughout the semester, students will work on creating their own business plan.

---

**MARKETING IN ACTION**

Credit: ½  
Open to: 10, 11, 12

Knowledge of marketing is indispensable to a student planning a business career, and provides a practical basis to the student seeking other careers. Marketing provides the student with materials that relate directly to the total business economy. Marketing management principles will also help the student understand marketing characteristics and practices. Desktop publishing skills are developed using various software programs. Students learn to create print advertisements for products and services.

---

**WORD PROCESSING 1**

Credit: ½  
Open to: 9, 10, 11, 12

In today's information age, every student needs keyboarding skills. This course introduces students to basic computer concepts, fundamentals of keyboarding (touch typing of alphabetic, numeric, and symbol keys), and basic document formatting. Students will achieve a minimum typing speed of 25 words per minute.

---

**WORD PROCESSING 2**

Credit: ½  
Open to: 9, 10, 11, 12  
Prerequisite: Word Processing 1

This course emphasizes development of keyboarding skills. Students will format letters, reports, forms, create a calendar, and other advanced word processing documents. Writing, proofreading, spelling, punctuation and English usage are emphasized. The students will participate in a workplace simulation designed to help reinforce and build software skills, improve internet skills, and develop teamwork and critical-thinking skills. Students will achieve a minimum of 40 words per minute.

---

**WORD PROCESSING 3**

Credit: ½  
Open to: 10, 11, 12  
Prerequisite: Word Processing 2

This course presents advanced word processing concepts such as table functions, use of spreadsheet functions, presentation software, macros, templates, merge functions, and graphics. The students will participate in a workplace simulation designed to help reinforce and build software skills, improve internet skills, and develop teamwork and critical-thinking skills. Students will achieve a minimum of 50 words per minute.

---

---

**COMPUTER APPLICATIONS**

Credit: ½

Open to: 9, 10, 11, 12

Prerequisite: Word Processing 1

This course provides an introduction to the Microsoft Office Suite. Students will learn how to use Word, Excel, PowerPoint, and Access. Students will learn how to create and format flyers, research reports, sales spreadsheets, presentations, and databases using a hands-on approach.

---

**SPORTS, ENTERTAINMENT  
AND STREET LAW**

Credit: ½

Open to: 10, 11, 12

Sports and Entertainment Marketing will cover marketing strategies, target marketing, promotions, pricing, stadiums, athlete endorsements, sponsorships, licensing, logos, event planning and more. This course will develop critical thinking skills, decision making and communication skills. This course will combine Street Law concepts along with Sports and Entertainment. Students will explore current event topics in sports, work in teams on a variety of realistic projects, and participate in a Virtual Sports Business Simulation.

---

**BUSINESS OF HOSPITALITY**

Credit: ½

Open to: 10, 11, 12

Business of Hospitality and Tourism will enable students to explore strategies in hotel management and location, types of lodging, key players and services, information and risk managements. The student will be given perspective on how marketing shapes the future of the hospitality industry and possible career opportunities.

---

**ADVANCED COMPUTER  
APPLICATIONS**

Credit: ½

Open to: 10, 11, 12

Prerequisite: Word Processing 1  
and Computer Applications

This course provides a more in-depth study of the Microsoft Office Suite. Students will learn advanced word processing concepts such as watermarking, SmartArt, and mail merge; spreadsheet techniques such as financial functions, lookups, 3D references, and loan calculations; and presentation skills such as creating custom backgrounds, charts, and actions buttons. Students will compile their completed projects in a portfolio.

---

**WEB DEVELOPMENT**

Credit: ½

Fee: \$12

Open to: 9, 10, 11, 12

Students will learn to use Hypertext Markup Language (HTML) to create websites. Students will use the Visual Studio Code application to design and build websites. This course is designed for students who have little or no prior experience with HTML. With patience and persistence, anyone can learn to code HTML and make professional grade websites!

---

---

**AP COMPUTER SCIENCE  
PRINCIPLES**

Credit: 1  
AP Test Fee: \$20  
Open to: 10, 11, 12  
Prerequisite: Teacher permission

In this course, students will learn the fundamentals of computer science using the Java programming language. It begins by focusing on programming basics and then on writing full classes and the logic and structures around building them.

AP Computer Science is the equivalent of an introductory college-level programming class and will prepare students for the AP exam.

**Students who register for this course are required to take the AP Exam.**

---

## ENGLISH/LANGUAGE ARTS

The High School English Program is a four-year curriculum plan designed to assist students in developing skills in listening, speaking, reading literary and informational texts, and composition.

The English Department requires Honors and AP students to complete a summer reading assignment.

Summer Reading:

Honors English 9: two required books

Honors English 10: one required book

AP English Language & Composition: two – three required books

AP English Literature & Composition: two – three required books

Students will be required to purchase or procure selected paperbacks.

---

---

### HONORS ENGLISH 9

Credit: 1

Fee: \$5

Prerequisite: Test scores and recommendation

Open to the college-bound students who are academically superior in Language Arts skills. This course will include the study of world literature, composition, and speech. Students will be required to purchase or procure selected paperbacks.

---

---

### ENGLISH 9

Credit: 1

Fee: \$5

Prerequisite: Reading and writing abilities at grade level

Open to all students with grade-level skills in Language Arts. This course will include the study of world literature, composition, and speech. Students will be required to purchase or procure selected paperbacks.

---

---

### HONORS ENGLISH 10

Credit: 1

Fee: \$5

Prerequisite: Teacher recommendation and a grade of B or higher for 2 previous semesters.

Open to college-bound students academically superior in Language Arts skills. This course will continue the study of world literature, composition, and speech begun in English 9. Students will be required to purchase or procure selected paperbacks.



---

**ENGLISH 10**

Credit: 1  
Fee: \$5  
Prerequisite: English 9

Open to all students with grade-level skills in Language Arts. This course will continue the study of world literature, composition, and speech. Students will be required to purchase or procure selected paperbacks.

---

**AP ENGLISH LANGUAGE  
AND COMPOSITION**

Credit: 1  
Fee: \$5  
AP Test Fee: \$20  
Prerequisite: Teacher recommendation and a B or higher for the two previous semesters; previous honors experience is highly recommended

Open to college-bound students superior in Language Arts skills. This college-level English course focuses on developing skills in close reading, effective writing, and critical thinking, as students read non-fiction and fiction texts. The course emphasizes the techniques and tools of classical rhetoric required to analyze difficult texts. In both whole-class and small-group discussions, students will focus on how writers and speakers achieve their purpose and communicate this purpose to an audience. Further, these texts will serve as models for students who will write frequently, with an emphasis on expository, argumentative and personal reflection forms. Students will be required to purchase or procure selected paperbacks.

**Students who register for this course are required to take the AP Exam.**

---

**ENGLISH 11**

Credit: 1  
Fee: \$5  
Prerequisite: English 10

Open to all students with grade-level skills in Language Arts. This course will continue the study of American literature. Students will be required to purchase or procure selected paperbacks.

---

**ENGLISH 12**

Credit: 1  
Fee: \$5  
Prerequisite: English 11

Open to all students with grade-level skills in Language Arts.. This course will focus on the study of composition through British literature. Completion of a research paper is required. Students will be required to purchase or procure selected paperbacks.

---

---

**AP ENGLISH LITERATURE AND COMPOSITION**

Credit: 1  
Fee: \$5  
AP Test Fee: \$20  
Prerequisite: Teacher recommendation and a B or higher for the two previous semesters

Open to college-bound students superior in Language Arts skills. This course is designed around the careful study and critical analysis of dynamic literature typically found in the sophomore year of the college curriculum. The process of reading and writing on the selected works will deepen the student's understanding of how writers hone their craft to create meaning and give pleasure to their readers. Students can expect a strenuous workload of seven essays per quarter along with homework averaging thirty to sixty minutes a night. Students will be responsible for up to three summer reading books and completing projects on each book throughout the summer. Some selections may contain adult content. It is highly recommended that students take AP English Language and Composition before enrolling in AP Literature. Students will be required to purchase or procure selected paperbacks.

**Students who register for this course are required to take the AP Exam.**

---

## ENGLISH ELECTIVES

The following electives assist students to improve skills or to pursue a special interest in more depth. Credit earned does not count, however, toward the four credits of English required for graduation.

\* Note: Creative Writing and Speech will be offered every other year, alternating between the two.

---

### SHAKESPEARE

Credit: ½

Open to: 10, 11, 12

Prerequisite: B average or better in English

In this elective semester course students will explore a minimum of four Shakespearean plays in depth. The history of Elizabethan theater, costumes, scenery and language of Shakespeare's time will be studied. This course is designed with independent study in mind. Heavy class participation and above average writing skills are required.

---

### CREATIVE WRITING

Credit: ½

Fee: \$5

Open to: 10, 11, 12

Prerequisite: B average or better in English

Creative Writing is designed for those students who wish to improve their writing through experimenting, critiquing, and reading. A workshop approach will be used to write stories, poems, and essays. Keeping a journal, writing daily, and sharing during group discussions are required. During the second half of the course, students will formulate with the teacher a writing plan in a genre of their choosing (poetry, short story, novella, nonfiction). *This course will be offered the 2020-21 school year.*

---

### SPEECH

Credit: ½

Open to: 11, 12

Prerequisite: English 10

This course emphasizes speaking skills needed in professional and social communication. Students will be required to give speeches in class. *This course will be offered the 2021-22 school year.*

---

### READING SKILLS

Credit: 1

Open to: 9, 10, 11, 12

Prerequisite: Teacher recommendation

Open for students with significant reading deficiencies. This course is designed to improve students' reading skills with the use of a specifically-designed reading program.

---

---

**BROADCAST JOURNALISM**

Credit: 1  
Fee: \$20  
Open to: 9, 10, 11, 12  
Prerequisite: Application form,  
three teacher references.

This course is designed to prepare informed, principled, disciplined and creative Broadcast Journalists. This program is designed to train news and sports videography, editing, reporting, and anchoring. The program includes use of broadcast news gathering equipment, both audio and visual, news writing, news-casting, news editing, interviewing, researching, digital video editing, video production, and practical Broadcast Journalism experiences. Students will be afforded the opportunity to integrate these skills in the creation of actual TV broadcasts. Students can expect to work toward master of the following aspects of video production: professionalism, workplace ethics, professional portfolios, live sports production, play by play announcing, commercial and short story production, promotional graphics design, and newscast production. This course can be repeated.

---

**YEARBOOK**

Credit: 1  
Fee: \$15  
Open to: 9, 10, 11, 12  
(Previous NRHS yearbook  
experience is required for Seniors  
to be in this class.)  
Prerequisite: Application form,  
three teacher references, and  
interview

This course will meet one full period per day to design and initiate production of the yearbook. This course provides a student the opportunity to learn fundamental skills of graphic design, computer graphics, photography, and basic journalistic writing. Grades will be based on class work and on out-of-school yearbook activities, including, but not limited to, fund raising, and selling ads. All work, including sales and bookkeeping records pertaining to the annual, are computer generated. This course can be repeated.

## FAMILY AND CONSUMER SCIENCE

These courses are designed to prepare students for independence and adulthood. Below are examples of topics covered during each course. The student will be responsible to get his/her own sewing project supplies before the project start date. Fees will be assessed for these courses.

---

### INTRODUCTION TO FCS

Credit: ½  
Fee: \$35  
Open to: 9, 10  
Prerequisite: None

This class teaches students the fundamentals of culinary and textiles. Passage of this course is required to take advanced cooking and sewing classes. Culinary will teach the basics involved in simple meal preparation. Topics include kitchen safety and sanitation, food borne illness prevention, kitchen tools and equipment, cutting skills, measuring skills, kitchen math, recipe reading, and cooking terminology. Fashion will teach you what makes a quality garment, how to care for clothing, and how to make the most of your clothing budget through basic clothing mending. You will also learn about project planning and time management while constructing a sewing project. Student is responsible for the cost of one sewing project.

---

### CULINARY FUNDAMENTALS

Credit: ½  
Fee: \$35  
Open to: 11, 12 who have not taken a prior culinary class  
Prerequisite: None

In this course, students will learn fundamental culinary techniques such as food poisoning prevention, how to follow a recipe and cooking terminology. Students will also be shown how to perform different cutting techniques, they will be able to distinguish between types of cookware, enhance their time management skills, and demonstrate proper measuring ability. Students will learn through typical classroom instruction as well as in kitchen labs.

---

### AMERICAN CUISINE

Credit: ½  
Fee: \$35  
Open to: All  
Prerequisite: Intro to FCS

American cuisine reflects the history of the United States, blending the culinary contributions of various groups of people from around the world, including indigenous American Indians, African Americans, Asians, Europeans, Pacific Islanders, and Latin Americans. We will study the 7 regions of the United States in order to understand how the people who settled there influenced each region. You will also have the opportunity to prepare the distinctive foods of each area. *This course will be offered the 2020-21 school year.*

---

---

**BAKING FOR BEGINNERS**

Credit: ½  
Fee: \$35  
Open to: All  
Prerequisite: Intro to FCS

This course is about the fundamentals of baking, and everything we make will be from SCRATCH, no box mixes here! Topics include baking terminology, functions of ingredients, the importance of accuracy in measurement, and the use of proper flours. Items prepared will include quick breads, yeast breads, cookies and brownies, pies and tarts, and cakes and icings. *This course will be offered the 2021-22 school year.*

---

**FOOD SCIENCE**

Credit: ½  
Fee: \$35  
Open to: All  
Prerequisite: Intro to FCS

In this course students will apply basic culinary practices and understand how flavor, texture and appearance are affected during food preparation. Having a deeper understanding of how ingredients behave will enable you to prepare different recipes with more creativity and confidence. You will obtain this knowledge through classroom instruction and hands-on food experiments done in kitchen labs. Topics covered may include menu terms, flours, herbs, spices, spicy chili peppers, sweeteners, leavening agents, fats, pastas, etc... *This course will be offered the 2020-21 school year.*

---

**GLOBAL FOODS**

Credit: ½  
Fee: \$35  
Open to: All  
Prerequisite: Intro to FCS

Are you willing to try new foods? Like the idea of learning about how people in different countries cook, eat, dress, and talk? In Foreign Foods we begin by studying the United States' regions in order to understand how each region influenced American culture. Next, we will select different countries and explore the cultural characteristics of each. Since learning about a country's food is such an essential part of culture, you will be preparing recipes from locations studied. *This course will be offered the 2021-22 school year.*

---

**SPORTS NUTRITION AND WELLNESS**

Credit: ½  
Fee: \$35  
Open to: All  
Prerequisite: Intro to FCS

Come explore and learn about living a healthy lifestyle! Find out about the nutrients our bodies need and why we need them. Investigate the new eating patterns and buzzwords you hear constantly in the news and on social media. And what about all those lose weight quick claims you hear attached to certain foods and supplements – are they for real? Find out what kind of exercise you really need to stay healthy through our Fitness Friday activities. Learn to cook healthy meals that taste great and are easy and quick to prepare. *This course will be offered the 2020-21 school year.*

---

---

**FASHION, FABRICS, & CONSTRUCTION**

Credit: ½  
Fee: \$5  
Open to: All  
Prerequisite: Teacher Approval Sig.

If sewing is your thing, this is the course for you. Expand upon your knowledge of fibers, fabrics, and construction that was learned in Fashion Fundamentals by creating your own sewing projects. Develop new sewing techniques and skills using a variety of equipment. Explore the fashion world and careers related to the fashion industry. Additional expenses for projects may be necessary depending upon projects selected.

---

**NASA SEWING TECHNOLOGY**

Credit: ½  
Fee: \$5  
Open to: Teacher Approval Sig.  
Prerequisite: Intro to FCS

In the NASA Sewing Technology class, you will be participating in the NASA HUNCH Softgoods program. HUNCH Softgoods creates goods and training items for the mock up facility at the Johnson Space Center as well as the Space Station Crew. One training item produced by students includes Cargo Transfer Bags (CTBs) which are used to pack everything from camera equipment to clothing items. CTBs are used all over the station and on the ground.

---

**COLLEGE AND CAREER READINESS**

Credit: ½  
Fee: \$25  
Open to: 9, 10  
Prerequisite: None

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 post-secondary admissions qualifications, and develop interviewing skills. Additional topics will include principles and techniques of professionalism, networking, conflict-resolution, negotiation, and leadership.

---

**STRATEGIES FOR CREATING COLLEGE SUCCESS: LCCC SDEV 102**

Credit: 1 (3 LCCC Credit Hours)  
Recommended for: 11, 12  
Prerequisite: Students must apply to LCCC and meet the satisfactory score on placement test.

An introductory interactive course designed to introduce valuable resources and to teach strategies for creating success in college and in life and improving academic performance. Topics include personal responsibility; motivation, personal, academic and career goal setting; learning styles; study skills; decision-making; problem solving; and priority management. This course may be used to fulfill the College 101 requirement.

**This is a College Credit Plus course.**

---

---

**LIVING ON YOUR OWN**

Credit: ½  
Fee: \$20  
Open to: 10, 11, 12  
Prerequisite: None

Can you survive on your own after high school? Whether you are going to college or joining the workforce, learn the skills needed to live on your own and to manage your personal finances. Units include: checking and savings accounts, banking skills, credit and loans, saving and investing, insurance options, taxes, social security, spending patterns and budget planning, contracts, and consumer protection.

---

**DYNAMIC RELATIONSHIPS**

Credit: ½  
Fee: \$5  
Open to: All  
Prerequisite: None

None of us live in a bubble free from other people. Who would want to? The interactions and relationships we have with others allows us to learn about the world and ourselves. Explore the many layers hidden in our different relationships and discover a lot about yourself in the process. Learn how to be a healthy, happy, contributing member in those relationships. Topics include cultural and societal influences, family similarities and differences, character building and respect, peer group influence, communication, social expectations, dating, healthy boundaries, love, marriage, etc... *This course will be offered the 2021-22 school year.*

---

**EARLY CHILDHOOD DEVELOPMENT**

Credit: ½  
Fee: \$20  
Open to: All  
Prerequisite: None

If you're interested in learning about children or one day working with children, then this is the class for you. In this course, you will study the principles of child growth, development, and behavior. An emphasis will be placed on the cognitive development of a child, as well as sensory and motor skills. Additional topics will include children with special needs, theories of development, learning styles, guidance and discipline, and evaluating childcare services. The focus of this class is the development of children from infancy to school age. *This course will be offered the 2021-22 school year.*

---



---

**PARENTING PRACTICES**

Credit: ½  
Fee: \$20  
Open to: 10, 11, 12  
Prerequisite: None

Do you plan on one day becoming a parent, working with infants and toddlers, or a career related to pregnancy and childbirth? In this class, we will discuss the importance of families and making the decision to have children. You will learn about the development of a baby from conception to birth and the importance of proper prenatal care. We will finish the semester discussing the proper care of an infant, cognitive and physical development, and child-related careers. You can experience the demands of parenting by taking home one of our RealCare Infant Simulators! *This course will be offered the 2020-21 school year.*

---

**HOME DECORATING**

Credit: ½  
Fee: \$25  
Open to: All  
Prerequisite: None

Learn about the principles of design and how to make spaces look aesthetically pleasing and function well. This class will help students understand how much is involved when creating beautiful places. In this class architectural styles, furniture, floor plans, lighting, flooring, window coverings, wall treatments, enhancement pieces, etc...will be explored in order to create a final dream room project utilizing the skills learned. This class should be considered for students who are creative or who value the beauty found in our surroundings. *This course will be offered the 2020-21 school year.*

---

---

## HEALTH AND PHYSICAL EDUCATION

---

### HEALTH

Credit: ½  
Fee: \$5  
Open to: 9, 10, 11, 12

Included in the study of health will be topics such as suicide prevention, CPR/AED, teen dating/violence, alcohol, tobacco, drugs, mental and emotional health, wellness in general, nutrition, physical fitness, and responsible sexual behaviors.

---

### TEAM SPORTS

Credit: ¼  
Fee: \$10  
Open to: 9, 10, 11, 12

This semester course is divided into several sessions. The students will be instructed in fitness and fundamental sports (including but not limited to flag football, softball, and volleyball). Fitness is tracked through a computer program and students are given state mandated assessments.

---

### INDIVIDUAL LIFETIME ACTIVITIES

Credit: ¼  
Fee: \$10  
Open to: 9,10, 11, 12

This course is designed for the student who wishes to participate in individual lifetime activities such as walking, healthy eating and nutrition, fitness, and aerobic activities including light weights. This course is offered to students seeking to expand their skills in a variety of recreational activities. Fitness is tracked through a computer program and students are given state mandated assessments.

---

### WALKING FOR FITNESS

Credit: ¼  
Fee: \$10  
Open to: 9,10, 11, 12

This class enables students to engage daily in fitness for life activities. A variety of walking workouts accompanied with other exercises will allow students to become fit and more knowledgeable about techniques of stretching, injury prevention and workout varieties. Personal qualities, such as self-esteem, leadership, self-discipline, goal setting and weight control are all to be gained from this fitness class.

---

### STRENGTH AND CONDITIONING

Credit: ½  
Fee: \$5  
Open to: 9, 10, 11, 12  
Prerequisite: PE requirement met or eligible for PE waiver

This course is designed for athletes who want to learn strength and conditioning skills and techniques or students who have met their physical education requirement. The beginning student will learn basic lifts and techniques. Weight training terminology will be emphasized. Weight room safety and workout procedures will be followed. A total body, general workout will be emphasized. Testing will be included.

---

---

## INDUSTRIAL TECHNOLOGY

---

### INDUSTRIAL TECHNOLOGY

Credit: 1  
Fee: \$40  
Open to: 9, 10, 11, 12

This course is project driven through problem solving, designing and developing the principles and practices used in industry.

---

### WOODWORKING TECHNOLOGY

Credit: ½  
Fee: \$35  
Open to: 9, 10, 11, 12

This course will deal with different principles of wood: technology of woods, cutting of woods, layout tools, power tools and machines. Emphasis will be placed on today's technology and how it relates to industry.

---

### ADVANCED WOODWORKING

Credit: 1  
Fee: \$55  
Open to: 11, 12  
Prerequisite: C in Woodworking Technology

This course is for the student who desires to go further into the wood processes. The specific processes involved will be designing, machine operation and maintenance, furniture making, carpentry, finishing, and career opportunities.

---

### DRAFTING 1

Credit: 1  
Fee: \$29  
Open to: 9, 10, 11, 12

This course introduces the fundamentals of drafting and basic drawing techniques. Students will use drafting instruments to draw standard orthographic projections, section views, and also learn dimensioning practices. During the second semester of the course, students will transition to CAD (computer aided drafting) and learn 21st century skills in the field.

---

### DRAFTING 2

Credit: ½  
Fee: \$29  
Open to: 11, 12  
Prerequisite: Drafting 1

This course will expand on the CAD skills acquired from Technical Drafting I. Students will become proficient in the AutoCAD software and be able to draw and dimension working drawings. In the second semester of the course, students will transition to 3D modeling software and use Autodesk Inventor.

---

### METALWORKING

Credit: ½  
Fee: \$55  
Open to: 9, 10, 11, 12

This course will develop skills and knowledge in metalworking and the American metal industry. Areas to be covered include: safety, design, sheet metal, art metals, bench metals, and welding.

---

---

## **METALLIC MATERIALS AND PROCESSES 2**

Credit: ½  
Fee: \$55  
Open to: 10, 11, 12  
Prerequisite: Metalworking

This course will continue the development of skills and knowledge in metalworking and the American metal industry that are taught in Metalworking.

---

## **DESIGN AND MANUFACTURING TECHNOLOGY**

Credit: ½  
Fee: \$45  
Open to: 10, 11, 12

The class begins with an introduction to manufacturing technology, technical systems, and the historical evolution of manufacturing. Students will examine the organization and management of manufacturing endeavors. The class culminates in the design and production of a product in a manufacturing enterprise situation which closely parallels the functions of a manufacturing corporation.

---

## **ROBOTICS**

Credit: ½  
Fee: \$20  
Open to: 10, 11, 12

In this course students will learn concepts and skills for use in modern day robotics. Students will also look at the importance and role of robotics in our world today. The VEX Robotics Design System will allow students to gain hands on experience of building, programming, and controlling a robot.

---

## **BASIC ELECTRICITY AND ELECTRONICS**

Credit: ½  
Fee: \$19  
Open to: 10, 11, 12

This course is for the student to obtain a practical and relevant knowledge of electricity. The course will include: history of electricity, generation of electricity, principles of electricity, A.C. and D.C. currents, series and parallel circuits, lighting fundamentals, alternate sources of electricity, house wiring principles, and proper use of electrical test instruments.

---

## **FABRICATION LAB**

Credit: ½  
Fee: \$30  
Open to: 10, 11, 12  
Prerequisite: Introduction to Engineering Design or Drafting 1

Do you want to use state-of-the-art equipment to design, build and test almost anything? Would you like to develop the technological, problem-solving and hands-on skills desired by employers? If your answer is yes, then this course is for you. In Fab Lab Intro, computer-controlled fabrication technologies such as 3D printers, lasers, vinyl cutters and milling machines will be used to transform a product idea into its tangible form. Students will explore many interrelated career fields, including engineering, science, mathematics, graphic design, computer aided design (CAD), electronics, and entrepreneurship.

---

---

**INTRODUCTION TO  
ENGINEERING DESIGN**

Credit: 1  
Fee: \$10  
Open to: 9, 10, 11, 12  
Prerequisite: Algebra 1 and a  
high school science class

In this course students will get hands on experience of the complete design process. Students will become familiar with brainstorming, sketching, measurement, unit conversion, statistics, and the Autodesk Inventor 3D modeling software.

---

## MATHEMATICS

---

### ALGEBRA 1

Credit: 1  
Open to: 9, 10

This course includes the language and ideas of Algebra, formulas, equations, graphs, fundamental principles and processes, and problem solving. Purposes are to develop a better understanding and greater appreciation of mathematics and to master the fundamentals and applications of elementary algebra. Each student is required to have a TI-83 or TI-84 graphing calculator, though the TI-84 is recommended.

---

### RECOVERY MATH 1

Credit: 1  
Open to: 9  
Prerequisite: Placement test scores and teacher recommendation

This is a mathematics elective designed to supplement the learning in an Algebra 1 course for students who struggle with math or are below grade level in their mathematical skills coming into 9<sup>th</sup> grade. Students will work with the concepts of algebra in a smaller group setting with more individualized teacher attention. **Credit earned does not count toward the four credits of Mathematics required for graduation.**

---

### RECOVERY MATH 2

Credit: 1  
Open to: 10  
Prerequisite: Placement test scores and teacher recommendation

This is a mathematics elective designed to supplement the learning in a Geometry course for students who struggle with math or are below grade level in their mathematical skills coming into 10<sup>th</sup> grade. Students will work with the concepts of geometry in a smaller group setting with more individualized teacher attention. **Credit earned does not count toward the four credits of Mathematics required for graduation.**

---

### GEOMETRY

Credit: 1  
Open to: 9, 10, 11, 12  
Prerequisite: Algebra 1, teacher recommendation

This course is designed to follow Algebra I. This course is a study of two dimensional Euclidean Geometry with an emphasis on logical thinking, proportions, special formulas, regular polygons, and proofs. Each student is required to have a TI-83 or TI-84 graphing calculator, though the TI-84 is recommended.

---

### HONORS GEOMETRY

Credit: 1  
Open to: 9, 10  
Prerequisite: Algebra 1, test scores and teacher recommendation

This course follows Algebra I. The course is a fundamental step to higher mathematics. It aims to give greater power to deductive thinking and proof. In addition to the topics of Geometry, students will study three-dimensional concepts as an extension of their corresponding two-dimensional concepts. Each student is required to have a TI-83 or TI-84 graphing calculator, though the TI-84 is recommended.

---

---

**ALGEBRA 2A**

Credit: 1

Open to: 11

Prerequisite: Geometry, teacher recommendation

This course is designed to follow Geometry Concepts. It is the first of a two-part course covering the topics of Algebra 2. Each area will be taken at a slower pace with more review than a standard Algebra 2 course. Topics will include equations and inequalities, linear relations and functions, systems of equations and inequalities, and quadratic functions and relations. Each student is required to have a TI-83 or TI-84 graphing calculator, though the TI-84 is recommended.

---

**ALGEBRA 2B**

Credit: 1

Open to: 12

Prerequisite: Algebra 2A

This course is designed to follow Algebra 2A. It will complete the Algebra 2 course requirements. Topics to be covered are polynomials and polynomial functions, inverses and radical functions and relations, trigonometric functions and conic sections. Each student is required to have a TI-83 or TI-84 graphing calculator, though the TI-84 is recommended.

---

**ALGEBRA 2**

Credit: 1

Open to: 10, 11, 12

Prerequisite: Geometry

This course is designed to follow Geometry. Topics include matrices, radicals, exponents, the binomial theorem and quadratic equations. Each student is required to have a TI-83 or TI-84 graphing calculator, though the TI-84 is recommended.

---

**HONORS ALGEBRA 2**

Credit: 1

Open to: 10, 11, 12

Prerequisite: B in Algebra 1 and Geometry, test scores, and teacher recommendation

This course covers all the topics in Algebra II, but more rigorously and at a faster pace. Additional concepts and greater depth will be pursued as time allows. Each student is required to have a TI-83 or TI-84 graphing calculator, though the TI-84 is recommended.

---

**COLLEGE PREP MATH**

Credit: 1

Open to: 12

Prerequisite: Algebra 2 and teacher recommendation

This course is designed for those students who are planning to attend college but are not ready for Pre-Calculus. Topics will include probability, statistics, functions and polynomials, and an introduction to trigonometry. Each student is required to have a TI-83 or TI-84 graphing calculator, though the TI-84 is recommended.

---

---

### **PRE-CALCULUS**

Credit: 1  
Open to: 11, 12  
Prerequisite: Algebra 2 and  
teacher recommendation

This course covers most of the trigonometric concepts which would be taught in a trigonometry course. Included topics are: trig, functions, proving identities, matrices, graphing the functions, solving right triangles and the use of formulas for half and double angle problems. This course will also cover polynomial functions, rational and irrational roots, inequalities solving and graphing, exponential and logarithmic functions and graphs, polar coordinate system, and complex numbers. The functions of mathematics will be explored graphically and algebraically. Each student is required to have a TI-83 or TI-84 graphing calculator, though the TI-84 is recommended.

---

### **HONORS PRE-CALCULUS**

Credit: 1  
Open to: 11, 12  
Prerequisite: Algebra 2 and  
teacher recommendation

This is an accelerated course designed primarily for the serious, self-disciplined student who demonstrates an interest in mathematics. Topics include algebraic functions, equations, systems of equations, matrices, exponential and logarithmic functions, trigonometric functions and their graphs, trigonometric identities and their equations, conic sections and mathematical induction. Each student is required to have a TI-83 or TI-84 graphing calculator, though the TI-84 is recommended.

---

### **AP CALCULUS**

Credit: 1  
AP Test Fee: \$20  
Open to: 12  
Prerequisite: Pre-Calculus and  
teacher recommendation.

This course explores the fundamental concepts of Calculus including the limit, the derivative, the integral and the most important theorems related to these topics. There is particular emphasis on understanding these concepts from a verbal, numerical, graphical, and algebraic perspective. Students will encounter numerous and varied applications of each major concept including continuity, rates of change, accumulated change from a rate of change, graph sketching, related rates, optimization, differential equations, areas between curves, and volumes of solids. This course is equivalent to a one semester Calculus 1 course at most universities. The course prepares students to take the AP Calculus AB exam in the spring. Each student is required to have a TI-83 or TI-84 graphing calculator, though the TI-84 is recommended.

**Students who register for this course are required to take the AP Exam.**

---



---

## QUANTITATIVE REASONING

LCCC MTHM 158

Credit: 1

(3 LCCC credit hours)

Suggested for: 11 & 12 students who earned a C or higher in Algebra II

**Prerequisite: students must apply to LCCC and meet the satisfactory score on placement test.**

This is a college level course designed for students who may be interested in non-STEM related careers that do not typically require calculus. The course follows the Lorain County Community College curriculum for MTHM 158. It focuses on using real world applications to build quantitative reasoning and problem solving skills. Topics include logic, analysis of growth, linear and exponential change, and personal finance.

**This a College Credit Plus course.**

---

## STATISTICS

LCCC MTHM 168

Credit: 1

(3 LCCC credit hours)

Suggested for: 11 & 12 students who earned a C or higher in Algebra II.

Prerequisite: students must apply to LCCC and meet the satisfactory score on placement test.

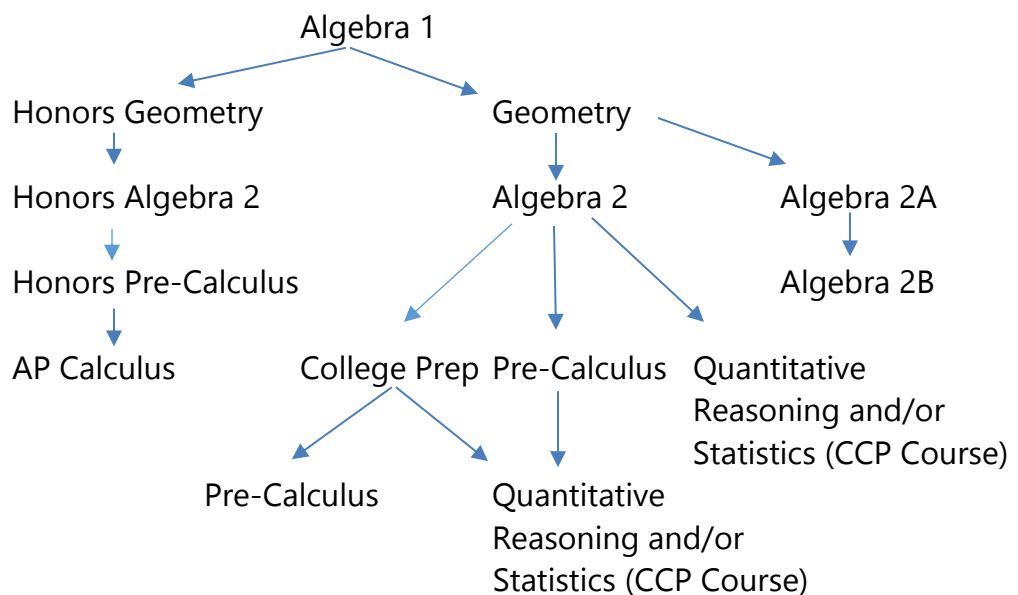
This college course provides a non-calculus based introduction to statistical thinking and statistical methods. The course follows the Lorain County Community College curriculum for MTHM 168. The topics discussed in the course include: data collection, data description, basic probability, sampling distributions, probability distributions, confidence intervals and hypothesis tests. An emphasis is placed on using technology to solve problems involving real data. Hands-on projects are used throughout the course.

**This is a College Credit Plus course.**

---

### Mathematics Course Mapping

*\*Students may join and/or leave honors track at any year*



## MUSIC

Acceptance into each performing group will be judged on a separate basis and will take into consideration the attributes of responsibility, self-discipline, cooperative spirit, and positive attitude. The performance of each student during their previous year may be used in the evaluation process. The student who participates in the music program will be expected to attend all before and after school and non-school day performances and rehearsals. Performances at athletic events, concerts, contests, etc. are a mandatory part of the program. Any student who experiences difficulty in meeting all school rules and/or program guidelines may be removed from that organization and/or the program completely at the end of any grading period or sooner if the need warrants.

Music Course fees will be assessed according to the following chart:

	<b><u>MUSIC FEE</u></b>	<b><u>ATTIRE FEE</u></b> (estimates)
Marching Band	\$15.00	\$100.00
Concert Band	\$15.00	\$100.00 Female/\$70.00 Male
Symphonic Band	\$15.00	\$100.00 Female/\$70.00 Male
Jazz Band	\$15.00	
Treble Singers	\$20.00	\$125.00 Female/\$80.00 Male
Concert Choir	\$15.00	\$80.00 Male
A Cappella Choir	\$15.00	\$125.00 Female/\$80.00 Male
Spectrum of Sound	\$15.00	\$125.00 Female/\$20.00 Male
Piano I	\$22.50	
Piano II	\$16.00	
Music Theory	\$20.00 (book fee)	

### **TREBLE SINGERS**

Credit: 1  
 Open to: 9, 10, 11, 12  
 (Soprano and Alto only)

This course emphasizes music reading and proper use of the voice. Two and three part music representing different style periods will be studied. The musical difficulty is dependent upon the ability level of the group. This group may participate in sponsored contests including OMEA events.

### **CONCERT CHOIR**

Credit: 1  
 Open to: 9, 10, 11, 12  
 (Tenor, Baritone, Bass only)

This course emphasizes music reading and proper use of the voice. A variety of music representative of all vocal repertoires will be studied depending on the ability level of the students involved. This group may participate in sponsored contests including OMEA events.

---

---

**A CAPPELLA CHOIR**

Credit: 1  
Open to: 10, 11, 12  
Prerequisite: Audition and approval of director

Course emphasis is on stylistic performances of music from all periods of composition. A Cappella is primarily a performing group. This group may participate in sponsored contests including OMEA events.

---

**SPECTRUM OF SOUND**

Credit: 1  
Open to: 10, 11, 12  
Prerequisite: Member of A cappella Choir and audition in Spring

This is a highly select choir offering opportunity to the highly motivated choral student to perform in a more popularized style of music, as well as musical theater repertoire. While emphasis is on staged or choreographed music, traditional choral repertoire serves as our primary style for outreach concerts. The group may participate in sponsored contests including OMEA events.

---

**FUNDAMENTALS OF MUSIC THEORY**

Credit: ½  
Open to: 9, 10, 11, 12

This course is designed to acquaint the student with the fundamental concepts of music such as clef reading, notation, rhythms and meters, scales, key signatures, and chord construction, and part writing. Aural skills will be developed through rhythmic and melodic dictation, as well as interval and chord identification.

---

**AP MUSIC THEORY**

Credit: 1  
Open to: 10, 11, 12  
AP Test Fee: \$20  
Prerequisite: Student enrolled in band or choir or taken and passed Fundamentals of Music Theory or instructor approval.

The AP Music Theory course corresponds to one year of a typical introductory college music theory course that covers topics such as musicianship, theory, musical materials, and procedures. Musicianship skills, including dictation and other listening skills, sight singing, and harmony, are considered an important part of the course. Through the course, students develop the ability to recognize, understand, and describe basic materials and processes of tonal music that are heard or presented in a score. Development of aural skills is a primary objective. Performance is also part of the curriculum through the practice of sight singing. Students understand basic concepts and terminology by listening to and performing a wide variety of music. Notational skills, speed, and fluency with basic materials are also emphasized.

**Students who register for this course are required to take the AP Exam.**

---

---

---

**MUSIC HISTORY**

Credit: ½  
Open to: 9, 10, 11, 12

This course presents a study of music from the earliest historic recordings through the twentieth century. It will cover seven basic areas: Antiquity, Medieval, Renaissance, Baroque, Classical, Romantic, Twentieth Century/Modern Music. The study includes the philosophies of the period as they affect music and performance. This course will involve a comprehensive study of the music, its form, and the composers, plus a history of the development of vocal and instrumental music.

---

**CONCERT BAND**

Credit: 1  
Open to: 9, 10, 11, 12

This course will perform a variety of musical literature suited to the ability of the students involved. All members will participate in auditions to determine seating. This group will participate in performance as well as contests including OMEA events.

---

**SYMPHONIC BAND**

Credit: 1  
Open to: 9, 10, 11, 12  
Prerequisite: Audition and approval of the director

This course will perform a variety of musical literature suited to the ability of the students involved. This group will participate in performances as well as contests including OMEA events. An audition is required to determine seating.

---

**MARCHING BAND**

Credit: ¼  
Open to: 9, 10, 11, 12  
Prerequisite: Member of Concert or Symphonic Band or permission of the director

Participation in this group is required of Concert and Symphonic Band members, unless there is a conflict with a fall sport. It functions from mid-July to approximately November with additional performances throughout the year. A student who elects to discontinue their involvement with the Marching Band between the first day of full band rehearsal and the end of the marching season will receive a failing grade for this course unless there is a medical problem making this course impossible as verified by a physician in writing.

Note: This course meets outside the school day.

---

**JAZZ BAND**

Credit: ½  
Open to: 9, 10, 11, 12  
Prerequisite: Audition and approval of the director.

This course consists of approximately 25 students. Members must audition. Jazz improvisation and varied styles of music such as Jazz, Rock, Blues, and Pop will be studied and performed during the course of the school year.

Note: This course meets outside the school day.

---

---

---

**HONORS A CAPPELLA CHOIR**

Credit: 1

Prerequisite: Teacher approval  
and member of A Cappella  
Choir

This consideration is for the advanced music student or student planning to major in music at the college or conservatory level. Honors music provides the opportunity for advanced research and insight into aspects of music other than laboratory performing ensembles. Students will also participate in OMEA Solo and Ensemble.

---

**HONORS SYMPHONIC BAND**

Credit: 1

Prerequisite: Teacher approval  
and member of Symphonic  
Band

This course meets as part of Symphonic Band. Additional requirements include but are not limited to extra rehearsals, papers, attendance at outside performances and other requirements as determined by the director. Students must be involved in private lessons, or outside the school instrumental ensembles to be given credit for honors symphonic band. Students involved in this course must take a solo or ensemble to solo and ensemble competition.

---

**MUSIC POP CULTURE**

Credit: ½

Open to: 9, 10, 11, 12

This course is designed to acquaint the student with the background of our modern music era. Students throughout this course will learn how music has transformed in America from Parlor Songs/Ballads to Alternative Rock, Heavy Metal, and Pop. Students will learn the characteristics of many styles of music and use them to build and draw conclusions to how music has become what we now listen to.

---

**PIANO 1**

Credit: ½

Open to: 9, 10, 11, 12

This course is designed to teach the concepts and fundamentals needed to perform on the piano. It will increase musical understanding beyond just reading notes by teaching students a vocabulary of chords and keys, as well as accompaniment patterns. Students will use digital piano workstations and headphones. Each class period will be divided into full-group instruction, as well as independent lab time to progress at their own level. No experience required.

---

**PIANO 2**

Credit: ½

Open to: 9, 10, 11, 12

Prerequisite: Piano 1 and/or  
approval of the instructor.

A continuation of Piano 1, this course is designed to develop piano proficiency at the advanced beginner level. Students will develop their technical and music reading skills, and learn how to become competent, independent performers. Each class period will be divided into full-group instruction, as well as independent lab time to progress at their own level. Students must pass Piano I proficiency exam and mastered Piano I concepts.

## SCIENCE

---

### PHYSICAL SCIENCE

Credit: 1  
Fee: \$10  
Open to: 9

This course will cover topics in both physics and chemistry. This includes the scientific method, laws of motion, energy, nature of waves, sound, periodic table, chemical bonds, acids and bases, nuclear energy, and the universe. Lab activities will be incorporated with class topics.

---

### HONORS PHYSICAL SCIENCE

Credit: 1  
Fee: \$10  
Open to: 9  
Prerequisite: Teacher recommendation, B+ in Science and Math

This course is intended for students interested in science, exhibiting strong math and problem solving skills, and planning to attend college. Using inquiry and scientific methods, students will explore topics relating to the study of matter, energy and waves, forces and motion, and the universe. Strong reading and writing skills, as well as the ability to work independently are expected.

---

### PRINCIPLES OF BIOLOGY

Credit: 1  
Fee: \$10  
Open to: 10  
Prerequisite: Physical Science and teacher recommendation

This course will emphasize the basic features of living things and life processes, classification of living things, genetics, evolution and ecology. Not open to students who have passed Biology. Students that may need remedial assistance in math and language arts will benefit from this class.

---

### HONORS BIOLOGY

Credit: 1  
Fee: \$20  
Open to: 9, 10  
Prerequisite: B in Physical Science and teacher recommendation

This course is intended for students interested in science and planning to attend college. Honors Biology focuses on life processes with emphasis on genetics and molecular make-up of living things. Topics include the diversity and interdependence of life, classification, cell structure and function, genetics, and evolution. Lab skills relating to biological techniques and equipment will be used to explore course topics. Aptitude in reading, writing, math, analysis skills, and independent thought processes are necessary.

---

### BIOLOGY

Credit: 1  
Fee: \$20  
Open to: 9, 10  
Prerequisite: Physical Science

Course topics include the diversity and interdependence of life, classification, cell structure and function, genetics, and evolution. Lab skills relating to biological techniques and equipment will be used to explore course topics.

---

---

---

### **KAP BIOLOGY SEMINAR**

Biology 115

Credit: 1

(4 credit hours from Kenyon College)

Suggested for: 11 & 12 students who earned a B or higher in Biology and Chemistry

Prerequisite: Students must apply for CCP through Kenyon College, meet CCP testing requirements, and be accepted to Kenyon College

This course is a college level course given in conjunction with Kenyon College's Kenyon Academic Partnership. Biology Seminar covers the study of life from the basic biochemical levels to the complex global levels following the theme of energy flow through materials and organisms. The course will focus on the chemical basis of life, prokaryote and eukaryote cell structure and diversity, cellular energetic, cellular organization, homeostasis in plants and animals, and biodiversity at the ecological levels. Reading and interpreting scientific literature as well as writing in the correct style as a research scientist will be integrated into the course content.

**This is a College Credit Plus course.**

---

---

### **ENVIRONMENTAL SCIENCE**

Credit: 1

Fee: \$25

Open to: 11, 12

Prerequisite: C in Biology and Chemistry (may be taken concurrently with chemistry)

This lab course challenges science students to learn how to live a sustainable world. Topics covered include: interrelationships in ecosystems, human population growth, and conservation of natural resources (including air, soil, water, forest, wildlife, and minerals). Current environmental issues will be explored.

---

---

### **HONORS CHEMISTRY**

Credit: 1

Fee: \$25

Open to: 10, 11, 12

Prerequisite: B in Physical Science, Biology, Algebra 1 and teacher recommendation

The course covers traditional topics in chemistry including: atomic theory, bonding models, solutions and acid-base theory, reaction kinetics, and organic structure. The laboratory is correlated with course topics and develops basic laboratory skills in qualitative and quantitative procedures. There is emphasis upon the use of mathematics in developing the chemical topics and in determining laboratory results. Scientific or graphing calculator required.

---

---

### **CHEMISTRY**

Credit: 1

Fee: \$25

Open to: 10, 11, 12

Prerequisite: C in Physical Science, Biology and Algebra 1

The course covers traditional topics in chemistry including: atomic theory, bonding models, solutions and acid-base theory, reaction kinetics, and organic structure. There is emphasis upon the use of mathematics in developing the chemical topics and in determining laboratory results. Scientific or graphing calculator required.

---

---

## **MATERIAL SCIENCE OF CHEMISTRY**

Credit: 1  
Fee: \$15  
Open to: 10, 11, 12  
Prerequisite: Physical Science and teacher recommendation

Material Science of Chemistry focuses on the properties of metals, ceramics, polymers, and other advanced materials. This class will explore the basic concepts of Chemistry and extend these ideas to real world applications. Students will participate in lab investigations, projects, demonstrations and problem solving activities.

---

---

## **PHYSICS**

Credit: 1  
Fee: \$10  
Open to: 11, 12  
Prerequisite: Algebra II and Geometry

The course covers traditional topics in physics including mechanics, heat, light, sound, magnetism, electricity and nuclear physics. The laboratory is correlated to course topics. There is emphasis on the use of mathematics in developing the physics topics and in determining lab results. Scientific or graphing calculator required.

---

---

## **ANATOMY AND PHYSIOLOGY**

Credit: 1  
Fee: \$25  
Open to: 11, 12  
Prerequisite: B in Biology and Chemistry (may be taken concurrently with Chemistry)

Anatomy and Physiology studies the organization and functions of the human body. Anatomy explores tissues, organs and organ systems and physiology studies the chemical interactions between systems, including the nerve impulses, muscle contractions, and blood chemistry. Cell structure will be reviewed along with the principles of genetics as they pertain to diseases in each system. This course is intended for students with an interest in the workings of the human body, especially those who are considering a career in any of the numerous health care fields. Dissection is required for this course.

---

---

## **AP PHYSICS 1 and 2**

Credits: 2  
Fee: \$20  
AP Test Fee: \$40  
Open to: 12  
Prerequisite: B in Algebra II, Chemistry and teacher recommendation

These courses focus on the big ideas typically included in the first and second semesters on an algebra-based, introductory college-level physics sequence and provide students with enduring understandings to support future advanced course work in the sciences. There is a significant laboratory component to this class. Note: this class will meet two periods per day – AP Physics 1 will be completed in first Semester and AP Physics 2 during second. Both must be taken in sequence to earn AP credit.

**Students who register for this course are required to take both AP Exams.**

---

---



---

---

**AP CHEMISTRY**

Credit: 1

Fee: \$25

AP Test Fee: \$20

Open to: 12

Prerequisite: B in Chemistry and  
teacher recommendation

This course is designed to be the equivalent of a general chemistry course usually taken during the first college year. Building on topics started in the first year of chemistry, students will take a more in depth look at the structure of matter, chemical reactions, kinetics, and thermodynamics through inquiry and lab experiences.

**Students who register for this course are required to take the AP Exam.**

---

## SOCIAL STUDIES

---

### WORLD HISTORY

Credit: 1  
Fee: \$5  
Open to: 9

This course offers the study of the influences of geographic settings, cultural perspectives, economic systems, political developments, and military developments in the period from 1750 through the present. Students gain a deeper understanding of the role of citizens and continue to develop their research skills.

---

### HONORS WORLD HISTORY

Credit: 1  
Fee: \$5  
Open to: 9  
Prerequisite: Test scores and teacher recommendation

This honors course is a survey of political, economic, military, cultural, and governmental systems of the world's historical eras from 1750 to the present. There will be written projects, oral presentations, class lectures and discussion, current events, and it requires a substantial amount of reading and class preparation each day. There is a summer reading requirement for this class.

---

### AP EUROPEAN HISTORY

Credit: 1  
Fee: \$5  
AP Test Fee: \$20  
Open to: 10, 11, 12  
Prerequisite: B in Honors World History or A in World History and teacher recommendation.

The course emphasizes historically significant events in European history from 1450 to the present. To allow for a multifaceted understanding of these events, students will explore the past from intellectual, cultural, political, diplomatic, social and economic viewpoints. The course is taught on a college level and it requires a substantial amount of reading and preparation for every class.

**Students who register for this course are required to take the AP Exam.**

---

### AMERICAN HISTORY

Credit: 1  
Fee: \$5  
Open to: 10

This is a survey of the political, economic, military, and social developments of the Republic after 1877. This academic level course places greater emphasis on comprehension through discussion. It is recommended for college and technical oriented as well as non-college bound students.

---

### HONORS AMERICAN HISTORY

Credit: 1  
Fee: \$5  
Open to: 10  
Prerequisite: Test scores and teacher recommendation

This is a survey of the political, economic, military, and social developments of the Republic after 1877. This level of the course will be based on a combination of readings, lecture, and discussion. Out of class writings and projects are required. Summer readings are a requirement for this class.

---

---

---

### **KAP AMERICAN HISTORY 101**

Credit: 1  
(4 credit hours from Kenyon College)  
Suggested for : 11 & 12 students who earned a B or higher in Social Studies  
Prerequisite: Students must apply for CCP through Kenyon College, meet CCP testing requirements, and be accepted to Kenyon College.

This is a college level course given in conjunction with Kenyon College's Kenyon Academic Partnership (KAP). Students who complete this may receive college credit from Kenyon College. The purpose of this course is to introduce students to United States history from the 12th century to the mid-19th century. Students will gain a more developed understanding of American history by examining the interactions among diverse cultures and people; the formation and use of power structures and institutions throughout the colonial, Revolutionary and antebellum eras; and the processes behind the "Americanization" of the North American continent.

**This is a College Credit Plus course.**

---

### **KAP AMERICAN HISTORY 102**

Credit: 1  
(4 credit hours from Kenyon College)  
Suggested for : 11 & 12 students who earned a B or higher in Social Studies  
Prerequisite: Students must apply for CCP through Kenyon College, meet CCP testing requirements, and be accepted to Kenyon College.

This is a college level course given in conjunction with Kenyon College's Kenyon Academic Partnership (KAP). This course is a thematic survey of the United States from the end of the Civil War to the present. Students will examine the transformation of the United States from a rural, largely Protestant society into a powerful and culturally diverse urban/industrial nation.

**This is a College Credit Plus course.**

---

### **AMERICAN GOVERNMENT**

Credit: 1  
Fee: \$5  
Open to: 11

This course includes the basis of political science and civics. An analysis of various functions and branches of government at the federal, state, and local levels are presented. In addition, a focus is directed at pertinent current events, in order that the student will be exposed to the issues of the day.

---

---

**AP AMERICAN GOVERNMENT**

Credit: 1  
Fee: \$5  
AP Test Fee: \$20  
Open to: 11, 12  
Prerequisite: B in Honors U.S. History or A in U.S. History and teacher recommendation

This course explores the political theory and everyday practice that direct the daily operation of our government and shape our public policies. The express purpose of this course is to prepare students to take the AP Exam for U.S. Government and Politics. The course is taught on a college level and it requires a substantial amount of reading and preparation for every class.

**Students who register for this course are required to take the AP Exam.**

---

**ECONOMICS**

Credit: ½  
Fee: \$5  
Open to: 11, 12

This course explores how man tries to satisfy unlimited wants and needs with limited resources. The struggle to balance these applies to us as individuals, businesses, and nations. The course will cover an understanding of the general features in a national economy (macroeconomics), and the connectedness of specific segments (microeconomics) to that economy.

---

**AP MACROECONOMICS**

Credit: 1  
Fee: \$5  
AP Test Fee: \$20  
Open to: 11, 12  
Prerequisite: B in Social Studies classes and teacher recommendation

The purpose of an AP course in macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. Such a course places particular emphasis on the study of national income and price-level determination and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth and international economics. The course is taught on a college level and it requires a substantial amount of reading and preparation for every class.

**Students who register for this course are required to take the AP Exam.**

---

**SOCIAL AND POLITICAL ISSUES IN AMERICA**

Credit: ½  
Fee: \$5  
Open to: 11, 12

This course serves as a capstone in which students apply the knowledge and skills that they have learned during previous grades. It focuses on current events and recent history while allowing students to choose topics of particular interest. Students will have an opportunity to demonstrate skills necessary for active, effective citizenship.

---

**PSYCHOLOGY**

Credit: ½  
Fee: \$5  
Open to: 11, 12

The course is an introduction to the study of human behavior with emphasis on the basic theories of personality, learning, dream analysis, child development, mental illnesses, and treatment. Also included is a short study in the field of parapsychology.

---

---

---

**AP PSYCHOLOGY**

Credit: 1  
Fee: \$5  
AP Test Fee: \$20  
Open to: 11, 12  
Prerequisite: B in Social Studies  
classes and teacher  
recommendation

AP Psychology is designed to introduce students to the scientific study of the behavior and mental processes of human beings. To accomplish this, the course provides instruction in each of the following 14 content areas: History and Approaches, Research Methods, Biological Bases of Behavior, Sensation and Perception, States of Consciousness, Learning, Cognition, Motivation and Emotion, Developmental Psychology, Personality, Testing and Individual Differences, Abnormal Psychology, Treatment of Psychological Disorders, and Social Psychology. The course is taught on a college level and it requires a substantial amount of reading and preparation for every class.

**Students who register for this course are required to take the AP Exam.**

---

**SOCIOLOGY**

Credit: ½  
Fee: \$5  
Open to: 11, 12

Sociology deals with the behavior of people in groups and why they behave the way they do. The student will discuss morals, ethics, prejudice and almost anything that presents a problem to the human race as people interact with one another. Class participation is emphasized.

---

**NORTH RIDGEVILLE SERVICE  
LEARNING PROJECT**

Credit: 2  
Fee: \$5  
Open to: 12

The North Ridgeville Service Learning Project (NRSLP) is a senior level elective that offers an alternative to the traditional school day. NRSLP offers a differentiated approach to learning, offering an environment of mixed learning between honors and general education students.

NRSLP students spend time in a traditional classroom three days each week where they engage in multi-disciplinary approach to learning. Two days each week, students are released from class, and they go into the community and perform their service learning. The students participate in reflective seminars, offer oral presentations, conduct research, write papers, and read selected materials and literature that focus on the universal themes of leadership and service.

The NRSLP has the potential to create a link between the school and the community and places the students and the city of North Ridgeville itself in both resource and beneficiary roles. Data indicates that young people who perform voluntary service within an educational framework gain heightened self-esteem, sensitivity to others, social responsibility, civic participation, and "real world" experience.

---

## WORLD LANGUAGES

---

### **FRENCH 1**

Credit: 1  
Recommendation: C+ average or better in Semester 2 of previous English course.

The student will learn basic grammar structures and vocabulary. The work will be done in a written and oral format. The student will study the culture of French speaking countries including differences and similarities to our culture.

---

### **FRENCH 2**

Credit: 1  
Recommendation: C+ average or better in Semester 2 of French 1.

The student will increase speaking, understanding and writing abilities in French. A more detailed cultural study of French speaking countries will be followed.

---

### **FRENCH 3**

Credit: 1  
Recommendation: C+ average or better in Semester 2 of French 2.

Students will be exposed to greater communication skills by increasing conversational abilities and paragraph writing to prepare them for French IV. Students will be exposed to the writings of French authors and journalists

---

### **HONORS FRENCH 4**

Credit: 1  
Fee: \$11  
Recommendation: C+ average or better in Semester 2 of French 3.

The student will study material reviewing grammar structures and introducing more advanced grammar, continue working with cultural and historical background, complete summaries and reports in French on material studied, and strive to improve pronunciation.

---

---

---

**CCP INTERMEDIATE FRENCH  
FRNH 251/252 (FRENCH 5)**

Credit: 2

(6 credit hours from LCCC)

Suggested for: B average or better in Semester 2 of Honors French 4.

Prerequisite: students must apply to LCCC and meet the satisfactory score on placement test.

This is a college level course and students enrolled in this course will also be enrolled as students at LCCC and will need to meet CCP requirements. This advanced course is designed for students of exceptionally high ability with interest in the target language. This course offers a thorough review and in-depth study of French with a special emphasis on developing fluency in the spoken language through discussions, writing assignments and film. This course may be offered through online learning.

**This is a College Credit Plus course.**

---

**SPANISH 1**

Credit: 1

Recommendation: C+ average or better in Semester 2 of previous English course.

The student will learn basic dialogues which stress vocabulary, correct pronunciation, grammar and comprehension. The work and exercises will be done orally with some written work involving short sentence constructions. A general cultural study of Spanish speaking countries will be made.

---

**SPANISH 2**

Credit: 1

Recommendation: C+ average or better in Semester 2 of Spanish 1.

The student will increase speaking, understanding and writing abilities in Spanish. A more detailed cultural study of Spanish speaking countries will be followed. Students who took Spanish 1 in eighth grade and earned a C+ or lower must retake Spanish 1.

---

**SPANISH 3**

Credit: 1

Recommendation: C+ average or better in Semester 2 of Spanish 2.

Students will be exposed to greater communication skills by increasing conversational abilities to prepare the students for real world experiences. Students will also increase their vocabulary and grammar skills through speaking and paragraph writing to prepare them for Spanish IV.

---

---

---

**HONORS SPANISH 3**

Credit: 1

Prerequisite: B average or better in Semester 2 of Spanish 1 & 2.

This is an advanced class. Students should have a good understanding of vocabulary and grammar from Spanish 1 & 2. This course is designed for students of exceptionally high ability with interest in the target language. This course is taught at an accelerated pace with greater rigor and depth than the regular-level courses. Our objectives are to converse with more fluency, review the fundamentals of the language and introduce more complex grammatical structures and communicative skills, and use more project based learning to further study grammar, vocabulary and culture. Students will be exposed to the writings of Spanish and Latin American authors and journalists. A recommendation is required from the Spanish 2 teacher.

---

---

**CCP INTERMEDIATE SPANISH  
SPNH 251/252 (SPANISH 4)**

Credit: 2

(6 credit hours from LCCC)

Suggested for: B average or better in Semester 2 of Honors Spanish 4.

Prerequisite: students must apply to LCCC and meet the satisfactory score on placement test.

This is a college level course and students enrolled in Honors Spanish IV will also be enrolled as students at LCCC and need to meet CCP testing requirements. This honors course is designed for students of exceptionally high ability with interest in the target language. This course offers a thorough review and in-depth study of Spanish with a special emphasis on developing fluency in the spoken language through discussions, writing assignments and film.

**This is a College Credit Plus course.**



---

**CCP SPANISH  
COMPOSITION/CONVERSATION  
SPNH 257G/258G (SPANISH 5)**

Credit: 2

(6 credit hours from LCCC)

Suggested for: B average or better in SPNH 252

Prerequisite: students must apply to LCCC and meet the satisfactory score on placement test.

This is a college level course and students enrolled in Honors Spanish V will also be enrolled as students at LCCC and will need to meet CCP testing requirements. This course is designed for students of exceptionally high ability with interest in the target language. This course requires students to demonstrate oral and written language skills and cultural knowledge in unstructured learning situations. A variety of reading materials will be utilized to acquire knowledge and information from authentic literary texts and media sources. Cultural perspectives, attitudes and beliefs of the home and target countries will be analyzed and discussed to further study grammar and composition. This is a college credit plus course and may also be available online.

**This is a College Credit Plus course.**

---

**AMERICAN SIGN LANGUAGE 1**

Credit: 1

Open to: 9, 10, 11, 12

This course will be offered through distance learning. In this course, students are taught American sign language (ASL) vocabulary and grammatical structures. Students will also learn the ASL fingerspelling system, the use of gestural devices and how to appropriately use the signing space in ASL.

---