

**CLERMONT
NORTHEASTERN HIGH
SCHOOL**



**COURSE SELECTION GUIDE
2021-2022**

GRADUATION REQUIREMENTS

A minimum of 21 credits is required for graduation for Clermont Northeastern High school. Credits specified by the Clermont Northeastern Board of Education:

English	4.0
Mathematics	4.0
Science	3.0
Physical Science	1.0
<i>(Physical Science or Chemistry)</i>	
Biology	1.0
Science Elective	1.0
<i>(Chemistry, Environmental Science, Anatomy and Physiology, Physics, Forensics, Engineer Your World, Uncovering Science, Zoology, Astronomy, CCP Options)</i>	
Social Studies	3.0
World History	1.0
American History	1.0
US Government	1.0
Fine Arts	1.0
<i>Selected from Art and/or Music.</i>	
Health/Physical Education	1.0
Health	0.5
Physical Ed. (2 semesters)	0.5
Electives	5.0
Total Credits	21.0

Students who complete two seasons of any sport, cheerleading, or marching band may be exempt from Physical Education courses. This does not include Academic Quiz Team. Students must apply for PE exemption through the guidance office and coaches/advisors must confirm students' participation on designated forms.

Students who attend a Great Oaks Career Development Campus are exempt from the Fine Arts requirement, but still must earn 21 credits to graduate.

Beginning in the 2015-2016 school year, US Government courses will run for a full year and earn 1.0 credit. Financial literacy requirements will be included in this course.

GRADUATION REQUIREMENTS

Class of 2021 and 2022

The state of Ohio established the following graduation requirements to begin with the class of 2018. In addition to earning the required credits:

- All students take end of course exams:
 - Algebra I and Geometry
 - Biology
 - American History and American Government
 - English 9 and 10

Students in Advanced Placement, International Baccalaureate, or dual enrollment courses in physical science, American History or American Government may take assessments aligned to those courses in place of end-of-course exams to avoid double testing.

Students earn 1 – 5 points for each exam, based on their performance:

- 5 – Advanced
- 4 – Accelerated
- 3 – Proficient
- 2 – Basic
- 1 – Limited

Students must earn at least 18 graduation points on end-of-course tests. The student must earn a minimum of 4 points in Math, 4 points in English, 6 points across Science and Social Studies.

Students who earned High School Credit in any of the above courses before July 1, 2014 automatically will receive 3 points per course test toward the total points needed for graduation.

- Students who do not earn the required number of graduation points can still meet the requirements for a diploma if they:
 - Earn a “remediation-free” score on a nationally recognized college admission exam such as ACT or SAT. The state of Ohio will pay for all students to take the exam free of charge in the fall of their Junior year, starting with the class of 2018.
 - Earn a State Board of Education-approved, industry recognized

credential or a state-issued license for practice in a career and achieve a score that demonstrates workforce readiness and employability on a job skills assessment.

Class of 2023 and beyond

Students are required to receive a passing score on the Algebra I and English II End of Course Exam. Students who are not able to pass the tests after remediation may satisfy the testing requirement by achieving one of the three options below:

- Demonstrate 2 Career-Focused Activities
 - Proficient Scores on the WebXams
 - Earn a 12 point Industry credential
 - A pre-apprenticeship or acceptance into an approved apprenticeship program.

In addition to the testing requirements listed above students must earn 2 diploma seals, one of the two must be designed by the State of Ohio.

- Ohio Means Jobs Readiness Seal (Ohio)
- Industry Recognized Credential Seal (Ohio)
- College Ready Seal (Ohio)
- Military Enlistment Seal (Ohio)
- Citizenship Seal (Ohio)
- Science Seal (Ohio)
- Honors Diploma Seal (Ohio)
- Seal of Biliteracy (Ohio)
- Technology Seal (Ohio)
- Community Service Seal – students must complete a meaningful volunteer experience. Students must keep a log of hours and write a written reflection. The experience must be pre-approved by the building administration.
- Fine and Performing Arts Seal – students must earn at least 2.0 Fine Arts Credits.
- Student Engagement Seal – A student will successfully complete two seasons with a CNE High School athletic team, marching band, color guard, and/or cheerleading – and/or – a minimum of two years of documented involvement in one or more school affiliated clubs/organizations – and/or – successful completion of two years in a Great Oaks program lab experience.

**The above Graduation Pathway is available to students in the Class of 2021 and 2022.

COLLEGE PREPARATORY REQUIREMENTS

CNE Recommended Minimum College Entrance Requirements: Four-year public colleges and universities advise that students take, at a minimum, all of the following courses to prepare for college.

Language Arts	4 credits
Mathematics (Algebra I, Geometry, Algebra II).....	4 credits
Science (including Chemistry)	3 credits
Social Studies	3 credits
Global Language.....	2-3 credits
Fine Arts	1 credit

GRADING SCALE

Clermont Northeastern uses the following grading scale:

90 – 100 =	A
80 – 89 =	B
70 – 79 =	C
60 – 69 =	D
Below 60 =	F

- I= Incomplete, Unable to assign grade
- P= Pass, no effect on GPA
- PEXMPT = Exempt, no effect on GPA
- WF= Withdraw failing, no effect on GPA
- WP = Withdraw Passing, no effect on GPA

GRADE POINT AVERAGE & CLASS RANK

Class rank is based on student grade point average (“GPA”). GPA is based upon (1) semester grades for semester-long courses and (2) final grades for year-long courses. At each semester’s conclusion, students are ranked numerically by GPA. The following scale is used to determine a student’s GPA:

A=	4.0
B=	3.0
C=	2.0
D=	1.0
F=	0

WEIGHTED COURSES

Honors	A = 4.5	AP and Core Area CCP	A = 5.0
	B = 3.5		B = 4.0
	C = 2.5		C = 3.0
	D = 1.5		D = 2.0

Weighted courses add a .5 value to the final average for honors courses and 1.0 for Advanced Placement (AP) and Core Area (Math, Science, Social Studies, English) College Credit Plus (CCP) courses. For example, a student who receives a 'B' (3.0) for the final average in an AP or Core Area CCP course would receive an additional weight of 1.0. The final average would be 4.0. A student who receives a 'B' (3.0) for the final average in an honors course would receive an additional weight of .5, resulting in a final average of 3.5.

Weighted courses include:

Honors Geometry A & B
Honors Algebra II A & B
Honors Advanced Math
Honors Trigonometry
Honors Biology A & B
Honors English 9 A & B
Honors English 10 A & B
AP Calculus
AP US History
AP Psychology
AP English Literature
AP English Language
AP US Government
AP Probability and Statistics
AP European History

Any College Credit Plus course within the Core Subject Areas (Math, Science, Social Studies, and English). Courses outside the Core Areas will not receive weighting.

STUDENT COURSE LOAD

The faculty and staff at Clermont Northeastern High School believe that students need to take full advantage of educational opportunities during their high school career. Therefore, all students are required to take a full course load, which involves being enrolled in seven (7) classes for credit every day during grades 9, 10, and 11. Athletes must be scheduled for and pass five (5) credit bearing classes (excluding Physical Education) each quarter to be eligible to participate. If a student fails to pass 5 credits in a quarter, the athlete is ineligible for the entire next quarter. As a reminder, Student Aides do not earn credit toward eligibility or graduation.

STUDENT SCHEDULE CHANGES

Students are encouraged to select their courses carefully in the spring. Students should read descriptions of courses they select and talk with

teachers, counselors, and parents to make informed choices.

Courses may be dropped only during the allotted time period at the beginning of school with parent, teacher, and principal approval. If a course is dropped **after the time allotted, the student will receive a WF (withdraw failing) in the course for the grading period.**

Student changes can be made **without a penalty during the allotted time period** only under the circumstances listed below:

- 1) To add a course to meet credit or course requirements for graduation
- 2) To correct a computer or human error in scheduling
- 3) To repeat a required course which had been failed the previous year
- 4) To make a required course level change when teacher, parent, and the counselor agrees it is in the student's best interest

TRANSFER OF CREDITS

Credits transferred to Clermont Northeastern from another high school will be examined with respect to meeting current graduation requirements.

COLLEGE CREDIT PLUS

Ohio lawmakers established the College Credit Plus (CCP) program in 2014. This effectively replaces the program formerly known as Post-Secondary Education Option Program (PSEOP). CCP enables college-ready students in grades 7-12 to take college courses for which they can earn both high school and college credit.

CCP Objectives:

- 1) to help students increase their readiness for and access to college
- 2) to help students decrease the overall cost of their college education
- 3) to help students decrease the time that it takes to earn their college degree.

There are several requirements for program eligibility and students must make a decision on their intent to participate in this program by March 30 of the preceding school year. There is a mandatory meeting that parents and student attend.

Students who participate in College Credit Plus must also satisfy the Clermont Northeastern Graduation

requirements. For CCP participants, selecting classes at the college/university is a function of both the classes required by CNE for high school graduation and the classes required by the college/university for the major they plan to pursue after high school graduation. CCP participants must work with their guidance counselor to determine the former and refer to the appropriate sample pathways to determine the latter.

Below are 15 and 30 hour pathways from some of our partnering Institutions of Higher Education.

Southern State

15-Hour Pathway (Ohio Transfer Module)

COMM 1115 (3)

ENGL 1101 (3)

PSCI 1104 (3)

PSYC 1110 (3)

SOCI 1107 (3)

30-Hour Pathway (Ohio Transfer Module)

Includes the following, in addition to the 15-Hour Pathway:

CHEM 1151/1161 (5)

ENGL 1102 (3)

MATH 1141 (3)

BIOL 1101 (5) or HIST 1110 (4)

To obtain curriculum guides for the majors offered at **UC Clermont**, please do the following:

- 1.) Go to www.ucclermont.edu
- 2.) Click "Academics" (left-hand sidebar)
- 3.) Select "Associate Degrees" (listed under "Majors & Programs")
- 4.) Choose a major(s) listed under either ***Transition-Oriented Associate Degree Programs*** or ***Career-Oriented Associate Degree Programs***.

The former programs enable students to earn an associate's degree en route to a bachelor's degree. The latter programs enable students to earn an associate's degree en route to the workforce.

- 5.) The overview page for each major includes a link to the major's 'curriculum guide'.

To obtain a curriculum guide for the majors offered at **all 3 UC campuses**, please do the following:

- 1.) Go to www.uc.edu
- 2.) Click "Academics" (banner at top of page).
- 3.) Select "Undergraduate" (listed under "Majors & Programs")
- 4.) Scroll down to "Programs by General Interest." Click a category and then select a major.

Note: The overview page for each major includes a link to the major's 'curriculum guide'.

Please see the guidance office for more information on CCP. CNE partners with a variety of Institutions of Higher Education including, but not limited to, University of Cincinnati: Clermont College, Chatfield College and Southern State Community College.

ADVANCED PLACEMENT PROGRAM

Advanced Placement (AP) is a program in which high school students can complete college-level curriculum while still in high school. Courses are designed to challenge students, require more work and give students the opportunity for increased academic progress.

In May, students may take the Advanced Placement Examinations. Exams scores are on a 5-point scale:

- 5=extremely qualified
- 4=well-qualified
- 3=qualified
- 2=possibly qualified
- 1=no recommendation

Often, participating colleges may grant placement and course credit for a 3 or higher.

HONORS DIPLOMA

The State Board of Education has specific criteria for awarding the Diploma with Honors.

A student who completes the high school Academic Pathway must meet at least seven of the following criteria:

1. Earn four units of English;
2. Earn at least four units of mathematics which shall include algebra I, algebra II, geometry and another higher level course, or a four-year sequence of courses which contains equivalent content;
3. Earn at least four units of science including one unit of physics and one unit of chemistry;
4. Earn four units of social studies;

5. Earn three units of world languages including at least two units in each language studied
6. Earn one unit of fine arts;
7. Maintain an overall high school grade point average of at least 3.5 on a four-point scale up to the last grading period of the senior year;
8. Obtain a composite score of 27 on the ACT or a combined score of 1210 on the SAT verbal and mathematics sections

The student who completes an intensive Career-Technical Education Pathway must meet at least seven of the following eight criteria:

1. Earn four units of English;
2. Earn at least four units of mathematics which shall include algebra I, algebra II, geometry and another higher level course, or a four-year sequence of courses which contains equivalent content;
3. Earn at least four units of science, including two advanced sciences;
4. Earn four units of social studies;
5. Earn four units in a career-technical education program that leads to an industry-recognized credential, results in an apprenticeship or is part of an articulated career pathway, which can lead to post secondary credit.
6. Achieve the proficiency benchmark established for the Ohio Career-Technical Competency Assessment
7. Maintain an overall high school grade point average of at least 3.5 on a 4.0 scale up to the last grading period of the senior year
8. Obtain a composite score of 27 on the ACT or a combined score of 1210 on the SAT verbal and mathematics sections

HONOR ROLL

To be placed on the Honor Roll each quarter, a student must be taking five courses or more, and earn the following:

High Honors: All A's
Honors: A's and B's

HONORS CORDS

Honor cords are at graduation are granted based on the cumulative average calculated through the third quarter of the senior year.

Summa Cum Laude (Gold): 3.85 – 4.0

Magna Cum Laude (Blue): 3.65 – 3.84

Cum Laude (White): 3.50 – 3.64

AUDITING COURSES

Students will be permitted to audit Band with the permission of the Principal and Instructor. Students who audit the course are expected to maintain attendance and behavior expectations. Students who audit Band will not receive credit towards their graduation requirements or a grade.

ATHLETIC ELIGIBILITY

Students at CNE must meet eligibility standards set forth by the Ohio High School Athletic Association, in order to participate in athletics.

Athletes must be scheduled for and pass 5 credit bearing classes (excluding PE). This includes any competitive extracurricular activity i.e. Academic Quiz Team. Eligibility is based on quarter grades. If a student fails to pass 5 courses in a quarter, the athlete is ineligible for the entire next quarter.

GREAT OAKS PROGRAM INFORMATION

www.greatoaks.com

Great Oaks Career Campuses offer career-oriented programs to prepare Juniors and Seniors for skilled employment through teaching specialized job skills and related academic studies. Students from Clermont Northeastern most often attend the Live Oaks Campus in Milford. Additional, specialized programs are offered at other campuses.

Please request the Great Oaks Catalog from your counselor for specific programs and entrance requirements, or visit greatoaks.com

Career Technical students are always considered students of Clermont Northeastern. Career Technical students are eligible to participate in all CNE extracurricular activities.

Students must apply during the second semester of the sophomore year. In order to be eligible for admission, the following credits should be completed:

English 2.0

Math	2.0
World History	1.0
American History	1.0
Health	0.5
Physical Education (2 semester courses)	0.5
Science	2.0

STUDENTS WHO FAIL COURSES

Every effort will be made to have students retake any failed courses. If for some reason the course cannot be retaken the student may have the opportunity to take the class through the school's online credit recovery program. Students who take classes through the school's online credit recovery program may be required to pass a final exam created by the school in order to receive credit.

AGRICULTURE EDUCATION

Course title	Grade	Length	Credit	Prerequisites
Agriculture, Food, and Natural Resources	9, 10, 11, 12	Year	1.25	None
Animal and Plant Science	9, 10, 11, 12	Year	1.25	None
Livestock Selection, Nutrition, and Management	9, 10, 11, 12	Year	1.25	None
Business Management for Agricultural and Environmental Systems	9, 10, 11, 12	Year	1.25	None
Mechanical Principles	10, 11, 12	Year	1.25	None
Practical Woodworking	9, 10, 11, 12	Semester	0.625	None

Agriculture, Food, and Natural Resources

Prerequisites: None

Grade: 9, 10, 11, 12

Length: 1 year Credit: 1.25

Agriculture, Food, and Natural Resources will teach students how to work in groups and to develop their leadership abilities through hands on activities. Students will use the opportunities the FFA provide for growth and build upon their interpersonal skills. Students will use the animal science unit to promote proper animal husbandry and production to make sound decisions as a producer and consumer. Students will explain and demonstrate the basics in plant production and harvesting in helping make sound decisions as a consumer and producer.

Animal and Plant Science

Prerequisites: None

Grade: 9, 10, 11, 12

Length: 1 year Credit: 1.25

Students will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined.

Livestock Selection, Nutrition, and Management

Prerequisites: None

Grade: 9, 10, 11, 12

Length: 1 year Credit: 1.25

Students will identify and apply principles and routine husbandry practices to production animal populations. Topics will include principles of nutrition, feed utilization, animal welfare, selection and management of facilities and herd populations. Students will apply knowledge of production animal care to enhance animal growth, selection of breeding stock, and management practices. Throughout the course, students will develop management plans reflecting practices for care and legal compliance.

Mechanical Principles

Prerequisites: None

Grade: 10, 11, 12

Length: 1 year Credit: 1.25

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

Practical Woodworking

Prerequisites: None

Grade: 9, 10, 11, 12

Length: 1 semester Credit: 0.625

Students will learn and develop basic woodworking skills. They will learn how to use and to operate hand and power tools in a lab. The students will use skills to plan and build wood projects. Students also learn safety rules.

Business Management for Agricultural and Environmental Systems

Prerequisites: None

Grade: 9, 10, 11, 12

Length: 1 year Credit: 1.25

Students will examine elements of business, identify organizational structures and apply management skills while developing business plans, financial reports and strategic goals for new ventures or existing businesses. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Throughout the course, students will apply concepts of ethics and professionalism while implications of business regulations will be identified.

ART

Course Title	Grade	Length	Credit	Prerequisite
Art Foundations I	9, 10, 11, 12	Semester	0.5	none
Art Foundations II	9, 10, 11, 12	Semester	0.5	Art Foundations I or Art I
Ceramics	9, 10, 11, 12	Semester	0.5	Art Foundations I or Art I
Drawing I	9, 10, 11, 12	Semester	0.5	Art Foundations I or Art I
Drawing II	9, 10, 11, 12	Semester	0.5	Drawing I
Painting	9, 10, 11, 12	Semester	0.5	Art Foundations I or Art I
Advanced Painting	9, 10, 11, 12	Semester	0.5	Painting
Sculpture	9, 10, 11, 12	Semester	0.5	Art Foundations I or Art I

Art Foundations I

Prerequisite: None

Grade: 9, 10, 11, 12

Length: Semester Credit: 0.5

This introductory course will explore various visual art forms and techniques using a variety of media. The students will learn about and use drawing, painting, sculpture, and mixed media to create two and three dimensional artworks. The Elements and Principles of Design will be the foundation, as well as the Ohio Visual Arts Standards, for artwork created throughout the course.

Art Foundations II

Prerequisite: Art Foundations I or Art I

Grade: 9, 10, 11, 12

Length: Semester Credit: 0.5

This course will provide experiences in making functional as well as sculptural pieces using a variety of hand-building techniques. Well thought out forms, designs, and functional uses, along with good craftsmanship are emphasized. The Elements and Principles of Design as well as the Ohio Visual Arts Standards will help guide the course.

Ceramics

Prerequisite: Art Foundations I or Art I

Grade: 9, 10, 11, 12

Length: Semester Credit: 0.5

This clay course will provide experiences in making functional as well as sculptural pieces using a variety of hand-building techniques. Well thought out forms, designs, and functional uses, along with good craftsmanship are emphasized. The Elements and Principles of Design as well as the Ohio Visual Arts Standards will help guide the course.

Drawing I

Prerequisite: Art Foundations I or Art I

Grade: 9, 10, 11, 12

Length: Semester Credit: 0.5

This course will develop skills in the area of drawing using media such as pencils, pastels, pen and ink, and marker. The students will create original two-dimensional works of art based on observation and imagination. The Elements and Principles of Design as well as the Ohio Visual Arts Standards will help guide the course.

Drawing II

Prerequisite: Drawing I

Grade: 9, 10, 11, 12

Length: Semester Credit: 0.5

The Drawing II class is for the seasoned drawing students who has mastered the basic skills of drawing and is creating more finished and involved works. Students would be challenged to produce advanced projects that expand and define their creative skills and concepts, to experiment with mediums and techniques, and to allow for production of work that could be used in a portfolio.

Painting

Prerequisite: Art Foundations I or Art I

Grade: 9, 10, 11, 12

Length: Semester Credit: 0.5

This course will introduce students to different painting media, styles, and techniques. Watercolor, acrylics and tempera will be some of the media explored. The Elements and Principles of Design as well as the Ohio Visual Arts Standards will help guide the course.

Advanced Painting

Prerequisite: Painting

Grade: 9, 10, 11, 12

Length: Semester Credit: 0.5

This Advanced Painting Techniques course is for the student who is very interested in creating advanced level detailed paintings with a variety of media and surfaces. Media includes, watercolor, tempera, acrylic, oils, and experimental media. A variety of surfaces such as paper, canvas, fabric, and boards may be included. You will be applying these techniques to your personal vision.

Sculpture

Prerequisite: Art Foundations I or Art I

Grade: 9, 10, 11, 12

Length: Semester Credit: 0.5

This course will introduce techniques in three-dimensional form through sculpture and relief techniques. Some of the media used will include wire, wood, paper mache, clay and found objects. Well thought out forms and designs, along with good craftsmanship, are emphasized. The Elements and Principles of Design as well as the Ohio Visual Arts Standards will help guide the course.

COMPUTER SCIENCE & TECHNOLOGY

Course Title	Grade	Length	Credit	Prerequisite
App Development	9-12	Semester	0.5	none
AI	9-12	Semester	0.5	none
Programing	9-12	Semester	0.5	none
Robotics	9-12	Semester	0.5	none
College Computer Applications (CCP Class through UC Clermont)	9-12	Semester	1.0	teacher recommendation
College Fundamentals of Info Tech (CCP Class through UC Clermont)	9-12	Semester	1.0	teacher recommendation
3D Modeling	9-12	Semester	0.5	none
AP Computer Science Principles	10-12	Year	1.0	Teacher recommendation

App Development

Prerequisites: none

Grade: 9-12

Length: Semester Credit: 0.5

Using the MIT App inventor programming suite to create app for Android devices. Students will learn the basics of app development as well as common programming terminology in order to produce app that will interact with devices such as WiFi, Bluetooth and the Internet.

AI

Prerequisites: none

Grade: 9-12

Length: Semester Credit: 0.5

Using the Vex EDR robotic cars, students will create programs that will guide the car through specific challenges. Programming conditional statements to have the robot to make decision based on obstacles it encounters.

Programming

Prerequisite: none

Grade: 9-12

Length: Semester Credit: 0.5

Students will learn to create, build and write programs to interact with the environments. Arduino microprocessors along with Bluetooth, WiFi, and motors are just a few elements that will be used to create our programs. Students will be challenged to expand their project to include additional elements to meet situational conditionals.

Robotics

Prerequisites: none

Grade: 9-12

Length: Semester Credit: 0.5

This is a beginning course in robotics. The objective of this course is to introduce the student to basic programming as well as problem solving strategies. This course will involve students in the development, building and programming of various robots. Students will work hands-on individually and in teams to design, build, program and document their progress. Topics may include motor control, gear ratios, torque, friction, sensors, timing, program loops, logic gates, decision-making, timing sequences, propulsion systems and binary number systems. Student designed robots will be programmed to compete in various courses.

College Fundamentals of Info Tech (CCP)

Prerequisites: teacher recommendation

Grade: 9-12

Length: Semester Credit: 1.0

This course is an introduction to the field of Information Technology including technology concepts, terminology, hardware components and software applications. Students will be introduced to and asked to apply basic skills in the core areas of information technology such as programming, database management, networking, systems administration, and web development and the basic research, problem solving and decision making skills required to be successful in this field. The course emphasizes the role of technical communication, project management, languages, tools, models and application architectures within the IT development process. Students who successfully complete the course requirements will earn 3 hours of transcribed credit from UC.

College Computer Applications (CCP)

Prerequisites: teacher recommendation

Grade: 9-12

Length: Semester Credit: 1.0

This course covers the use of the microcomputer in a professional environment with a focus on the innovative use of this technology. Students will use decision making tools to assist them in their work or personal environment (including assessing the opportunities and potential issues with the use of technology). The course focuses on technology; history of technology; components of the PC; the Internet; application software including spreadsheet, database, presentation, and Web technologies. Ethical issues are discussed. Students who successfully complete the course requirements will earn 3 hours of transcribed credit from UC.

3D Modeling

Prerequisites: none

Grade: 9-12

Length: Semester Credit: 0.5

3D Modeling is the design, creation, and production of 3D elements using a variety of design methods. Students will use a CAD/CAM (Computer Aided Drafting/Modeling) application to design, create and test conceptual parts in a 3D environment with the intent to be produced as physical objects. Students must possess a strong background in mathematics, and have successfully completed Geometry in order to participate in the course.

AP Computer Science Principles

Prerequisites: none

Grade: 10-12

Length: Year Credit: 1.0

AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.

ENGLISH

Course Title	Grade	Length	Credit	Prerequisites
CP English 9 A/B	9	2 Semesters	0.5 for each semester	None
Honors English 9 A/B	9	2 Semesters	0.5 for each semester	Teacher Recommendation
CP English 10 A/B	10	2 Semesters	0.5 for each semester	English 9
Honors English 10 A/B	10	2 Semesters	0.5 for each semester	Teacher Recommendation
CP English 11 A/B	11	2 Semesters	0.5 for each semester	English 9 and 10
CP English 12 A/B	12	2 semesters	0.5 for each semester	English 9, 10, 11
AP English: Language and Composition /Honors English 11/12	11, 12	Year	1.0	English 10 and Teacher Recommendation
Effective Communication A/B	10, 11, 12	Semester	0.5	English 9
Creative Writing I	9, 10, 11, 12	Semester	0.5	None
AP Literature and Composition /Honors English 11/12	11, 12	Year	1.0	CP English 10 and
Publications: Yearbook and Journalism	10, 11, 12	Year	1.0	Teacher Recommendation, English 9

CP English 9 A/B

Prerequisites: None

Grade: 9

Length: 2 semesters Credit: 0.5 for each semester

CP English 9 consists of multiple units from the textbook, and a variety of literature will be integrated as supplements to the units. Students will be regularly assessed on their comprehension of all the readings. In addition to reading, students will develop their writing, listening, viewing, and speaking skills to enhance their knowledge and practice of the English language arts. All instructional goals of the lessons and evaluations will be consistent with the benchmarks set forth by the Common Core Standards.

Honors English 9 A/B

Prerequisites:

Grade: 9

Length: 2 semesters Credit: 0.5 for each semester

Honors English 9 consists of multiple units from the textbook, and a variety of literature will be integrated as supplements to the units. Students will be regularly assessed on their comprehension of all the readings. In addition to reading, students will develop their writing, listening, viewing, and speaking skills to enhance their knowledge and practice of the English language arts. All instructional goals of the lessons and evaluations will be consistent with the benchmarks set forth by the Common Core Standards. Honors English 9 will have additional assignments and move at an accelerated pace.

CP English 10 A/B

Prerequisites: CP English 9

Grade: 10

Length: 2 semesters Credit: 0.5 for each semester

In CP English 10 Students will follow thematic units throughout the year. Students will be expected to complete assorted writing assignments both inside and outside of class to develop skills of expression. Students will be regularly assessed on their comprehension of all the readings. In addition to reading, students will develop their writing, listening, viewing, and speaking skills to enhance their knowledge and practice of the English language arts. All instructional goals of the lessons and evaluations will be consistent with the benchmarks set forth by the Common Core Standards.

Honors English 10 A/B

Prerequisites:

Grade: 10

Length: 2 semesters Credit: 0.5 for each semester

In CP English 10 Students will follow thematic units throughout the year. Students will be expected to complete assorted writing assignments both inside and outside of class to develop skills of expression. Students will be regularly assessed on their comprehension of all the readings. In addition to reading, students will develop their writing, listening, viewing, and speaking skills to enhance their knowledge and practice of the English language arts. All instructional goals of the lessons and evaluations will be consistent with the benchmarks set forth by the Common Core Standards. Honors English 10 will have additional assignments and move at an accelerated pace.

CP English 11 A/B (American Literature)

Prerequisites: CP English 10

Grade: 11

Length: 2 semesters Credit: 0.5 for each semester

Students will follow the Ohio New Learning Standards for English 11 curriculum through various forms of American Literature as well as one work by Shakespeare. College and career exploration and preparation will be part of the course work as well. Students will continue in the exploration of careers and college preparation in this semester. Students will be regularly assessed on their comprehension of all the readings. In addition to reading, students will develop their writing, listening, viewing, and speaking skills to enhance their knowledge and practice of the English language arts. All instructional goals of the lessons and evaluations will be consistent with the benchmarks set forth by the Ohio New Learning Standards.

CP English 12 A/B

Prerequisites: CP English 11

Grade: 12

Length: 2 semesters Credit: 0.5 for each semester

Students will be expected to read a large amount and variety of literature and employ in-depth literary analysis with particular attention to how the structure of a work is used to create meaning. Students will be expected to read out of class both individually and independently and with others during class time. There will also be at least one class novel per quarter, with the exception of 4th quarter when students will choose a book to study independently. Students will be regularly assessed on their comprehension of all the readings. In addition to reading, students will develop their writing, listening, viewing, and speaking skills to enhance their knowledge and practice of the English Language Arts. All instructional goals of the lessons and evaluations will be consistent with the benchmarks set forth by the Ohio New Learning Standards

AP English Language and Composition

Prerequisites: CP English 10 and Instructor Permission

Grades: 11 and 12

Length: Year Credit: 1.0

This course engages students in becoming skilled readers of prose written for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purpose, audience expectations and subjects as well as how the generic conventions and the resources of language contribute to effectiveness in writing. Much of the class discussion will focus on the author's technique, meaning and expression of philosophical ideas. Students should expect this course to be similar to an introductory college writing course that focuses on exposition, argument, and literary analysis.

*In the spring, students and parents must decide in writing, whether they wish to take the standardized College Board AP Exam or not. Once students declare their intent to take the exam and pay the required fee, their transcripts will be adjusted to reflect AP English. Students who receive a score of 3, 4, or 5 on the College Board exam will have their fee refunded. Students choosing **not** to take the AP Exam will have their transcripts adjusted to reflect a course title of Honors English 11/12 (respective to their current grade).

Effective Communications A/B

Prerequisites: English 9

Grades: 10, 11, 12

Length: Semester Credit: 0.5

Effective Communications will explore the history of communications as a field of study, along with interpersonal and mass communications. Throughout the course students will also practice writing and develop real-world speaking skills.

Creative Writing

Prerequisites: None

Grades: 9, 10, 11, 12

Length: Semester Credit: 0.5 for the semester

The course is for students who are interested in developing and expressing their own creative voice through language. Students will have the opportunity to explore a variety of writing that includes different types of poetry and short stories, as well as experiment with new topics, genres, and media of interest. Students will also become part of a writing community through activities and workshops.

AP Literature and Composition

Prerequisites: CP English 10, teacher recommendation

Grades: 11, 12

Length: 1 year Credit: 0.5

This is a rigorous course of study with a focus on the AP Exam. The exam assesses students' skills with careful and critical analysis of imaginative literature. Students will be regularly assessed on their comprehension of all the readings. In addition to reading, students will develop their writing, listening, viewing, and speaking skills to enhance their knowledge and practice of the English language arts. All instructional goals of the lessons and evaluations will be consistent with the benchmarks set forth by the Common Core Standards in addition to the College Board requirements for an AP Literature and Composition Course.

*In the spring, students and parents must decide in writing, whether they wish to take the standardized College Board AP Exam or not. Once students declare their intent to take the exam and pay the required fee, their transcripts will be adjusted to reflect AP English. Students who receive a score of 3, 4, or 5 on the College Board exam will have their fee refunded. Students choosing **not** to take the AP Exam will have their transcripts adjusted to reflect a course title of Honors English 11/12 (respective to their current grade).

Publications (Yearbook and Journalism)

Prerequisites: Teacher Recommendation, English 9

Grades: 10, 11, 12

Length: 1 year Credit: 1.0

Publications is a year-long course, and students have an obligation to remain in the course for the entire year. The purpose of this class is to produce the yearbook and other news publications for the school while developing necessary business, computer, organizational, and writing skills. Students will learn publishing software and web-based yearbook software that produces an all color yearbook. Students will understand, practice, and learn skills necessary to successfully design and sell advertising. Students will learn the ethical and legal guidelines in creating the yearbook as well. Students will have responsibilities outside of school such as photographing games/events, meeting with local businesses, and actively participating in fundraising events. All assignments, layouts and responsibilities will be given numerical grades; therefore it is essential that students maintain the duties assigned and mandatory deadlines.

MATH

Course Title	Grade	Length	Credit	Prerequisites
Transition to HS Math	9	2 semesters	0.5 for each semester	Teacher Recommendation
Algebra I A/B	9	2 semesters	0.5 for each semester	None
Geometry A/B	9, 10	2 semesters	0.5 for each semester	Algebra I
Honors Geometry A/B	9, 10	2 semesters	0.5 for each semester	Algebra I, Teacher Recommendation
Algebra II A/B	10, 11	2 semesters	0.5 for each semester	Algebra I, Geometry
Intermediate Algebra	10, 11	2 semesters	0.5 for each semester	Algebra I
Honors Algebra II A/B	10, 11	2 semesters	0.5 for each semester	Algebra I, Geometry, Teacher Recommendation
Advanced Math	11, 12	2 semesters	1.0	Teacher Recommendation
Algebra 3 with Trig	11, 12	2 semesters	1.0	Algebra II
Calculus	12	2 semesters	0.5 for each semester	Advanced Math, CCP Algebra and Trig, or Teacher Recommendation
Applied Math	11, 12	1 semester	0.5	Algebra II
Probability and Statistics	11, 12	1 semester	0.5	Algebra II
AP Calculus	12	Year	1	Honors Advanced Math, Honors Trigonometry
ACT Math	11, 12	Semester	0.5	None
AP Statistics	11, 12	Year	1	Teacher Recommendation
Math Lab	9-12	2 semesters	0.5 for each semester	None
College Algebra (CCP Class through UC Clermont)	11, 12	Semester	1	Teacher Recommendation
College Trigonometry (CCP Class through UC Clermont)	11, 12	Semester	1	Teacher Recommendation
College Calculus I (CCP Class through UC Clermont)	11, 12	Semester	1	Teacher Recommendation, College Algebra, College Trigonometry
College Calculus II (CCP Class through UC Clermont)	11, 12	Semester	1	Teacher Recommendation, College Algebra, College Trigonometry, College Calculus I

Transitions

Prerequisites: Teacher Recommendation

Grade: 9

Length: 2 semesters

Credit: 0.5 for each semester

Transition Math is an introduction to basic algebra concepts and a review of arithmetic algorithms. This course is designed to help students develop a strong foundation in mathematics; emphasizing the concepts necessary to be successful in Algebra I, Geometry, and Algebra II.

Algebra 1

Prerequisites: None

Grade: 9

Length: 2 semesters

Credit: 0.5 for each semester

Algebra I is a class for most 9th grade math students that covers all the standards necessary for preparing for the EOC Algebra 1 Assessment. This course will cover the following concepts: number concepts and computation; properties of number systems; linear and quadratic equations; linear systems; linear, quadratic, and exponential functions; linear inequalities; operations on polynomials and rational expressions; and data.

Geometry

Prerequisites: Algebra I

Grade: 9, 10

Length: 2 semesters

Credit: 0.5 for each semester

Geometry is for sophomores and some freshmen and continues the study of algebra and geometry in preparation for the State Assessment. Geometry will cover the following topics: vocabulary, angle relationships, polygons, triangles, quadrilaterals, circles, parallel lines and transversals, similarity and congruence, right triangles, constructions, areas and volumes, transformations, and probability.

Honors Geometry

Prerequisites: Algebra I and Teacher Recommendation

Grades: 9, 10

Length: 2 semesters

Credit: 0.5 for each semester

This is a course designed for students who are taking the honors level math track including a fifth credit of Calculus. Not only will the class prepare students for the State Assessment but will also prepare them for higher level of math achievement. Honors Geometry will cover the following topics: vocabulary, angle relationships, polygons, triangles, quadrilaterals, circles, parallel lines and transversals, similarity and congruence, right triangles, constructions, areas and volumes, transformations, and probability.

This course is a weighted course, adding 0.5 to the weighted GPA.

Intermediate Algebra

Prerequisites: Algebra I

Grade: 10, 11

Length: 2 semesters

Credit: 0.5 for each semester

This course is designed for students who have successfully completed the standards for Algebra I. Within the context of mathematical modeling and data analysis, students will study functions and their behavior, systems of inequalities, probability, experimental design, and analysis of data generated by applications in science, business, and finance. This course is the bridge between Algebra I and Algebra II for students who need it.

Algebra 2

Prerequisites: Algebra I and Geometry

Grade: 10, 11

Length: 2 semesters

Credit: 0.5 for each semester

This course is a continuation of the study of algebra. Algebra 2 will cover the following concepts: real numbers, equations and inequalities, systems, matrices, polynomials, radical expressions, rational expressions, functions and relations, quadratic functions, polynomial functions, and exponential and logarithmic functions.

Honors Algebra 2

Prerequisites: Algebra I, Honors Geometry, and Teacher Recommendation

Grade: 10, 11

Length: 2 semesters

Credit: 0.5 for each semester

This course is part of the five-credit math program. Honors Algebra 2 will cover the following concepts: real numbers, equations and inequalities, systems, matrices, functions and relations, polynomials, radical expressions, rational expressions, quadratic functions, polynomial functions, sequences and series, trig functions, and exponential and logarithmic functions.

This course is a weighted course, adding 0.5 to the weighted GPA.

Algebra 3 with Trig

Prerequisites: Algebra 2

Grade: 11, 12

Length: 2 Semesters

Credit: 0.5 for each semester

This course is designed to be an extension of Algebra 2. Students will study polynomials, exponential functions, logarithms, systems of equations, and inequalities. Trigonometry will be introduced with an emphasis on right triangle trigonometry and an introduction to the unit circle and radian measures. This course will prepare students for upper level mathematics courses in high school and college.

College Algebra

Prerequisites: Teacher Recommendation

Grade: 11,12

Length Semester

Credit: 1.0 - CCP Class through UC Clermont.

Study of linear, polynomial, rational, exponential, and logarithmic functions, systems of linear equations, systems of inequalities and modeling with functions.

Students who successfully pass the course will earn 3 credits of transcribed credits from the University of Cincinnati.

College Trigonometry

Prerequisites: Teacher Recommendation

Grade: 11,12 Length Semester

Credit: 1.0 - CCP Class through UC Clermont.

Preparation for students who need trigonometry for calculus and/or physics. Right triangle trigonometry, trigonometric functions and graphs, trigonometric identities, vectors, conic sections, polar coordinates.

Students who successfully pass the course will earn 3 credits of transcribed credits from the University of Cincinnati.

College Calculus I

Prerequisites: Teacher Recommendation, College Algebra, College Trigonometry

Grade: 11,12

Length Semester

Credit: 1.0 - CCP Class through UC Clermont.

The first part of a two semester sequence (MATH1044 and 1045) of courses on calculus appropriate for students in business and life sciences. Topics covered include functions, graphs, limits, continuity, properties of exponential and logarithmic functions, differentiation, curve sketching, optimization and the definite integral.

Students who successfully pass the course will earn 3 credits of transcribed credits from the University of Cincinnati.

College Calculus II

Prerequisites: Teacher Recommendation, College Algebra, College Trigonometry, College Calculus I

Grade: 11,12

Length Semester

Credit: 1.0 - CCP Class through UC Clermont.

The second part of a two semester sequence (MATH1044 and 1045) on calculus appropriate for students in business and life sciences. Topics covered include antidifferentiation, the fundamental theorem of calculus, functions of two variables, partial derivatives, maxima and minima, Lagrange multipliers and applications to probability and other areas.

Students who successfully pass the course will earn 3 credits of transcribed credits from the University of Cincinnati.

Advanced Math

Prerequisites: Teacher Recommendation

Grade: 11, 12

Length: 2 Semesters

Credit: 0.5

This course is a weighted course, adding 0.5 to the weighted GPA.

Advanced Math is a review of many important Algebra and Geometry topics that will be carried over into college math classes. Advanced Math will cover the following concepts: functions and graphs, analytic geometry, introduction to calculus concepts, limits and derivatives, surface area and volume of 3-dimensional figures, and sequences and series.

This class will also include

Trigonometry and Analytical Geometry. Trigonometry will cover the following concepts: trig functions and graphs, radian measure, trig identities and equations, polar coordinates, and conic sections.

This course is a weighted course, adding 0.5 to the weighted GPA.

Calculus

Prerequisites: Advanced Math, CCP Algebra and Trig, or Teacher Recommendation Grade: 12

Length: 2 semesters

Credit: 0.5 for each semester

This course is a weighted course, adding 0.5 to the weighted GPA.

Calculus is a college level course designed for high achieving math students who plan to continue their math studies. Calculus will cover the following concepts: functions and their graphs, limits and continuity, derivatives, applications of derivatives, integrals, applications of integrals, transcendental functions, and techniques and applications of integration.

AP Calc

Prerequisites: Advanced Math and Trigonometry

Grade: 12

Length: Year

Credit: 1.0

AP Calculus is a college level course designed for high achieving math students who plan to continue their math studies. Students will have the option to take the AP exam in early May. There is an \$80.00 fee for the exam that will be reimbursed with a passing score. AP Calculus will cover the following concepts: functions and their graphs, limits and continuity, derivatives, applications of derivatives, integrals, applications of integrals, transcendental functions, and techniques and applications of integration.

AP Stats

Prerequisites: Teacher Recommendation

Grade: 11, 12

Length: Year

Credit: 1

AP Statistics is an introductory college-level treatment of experimental design and observational studies, univariate and bivariate data analysis, probability, and inferential methods of drawing conclusions about populations including hypothesis testing and confidence intervals. Students will be expected to exhibit the characteristics of a responsible learner.

Prob/Stats

Prerequisites: Algebra II

Grade: 11, 12

Length: Semester

Credit: 0.5

Probability and Statistics discusses the ideas behind probabilities and statistics in real life situations. Probability and Statistics will cover the following concepts: basic probabilities, fundamental counting principle, standard deviation, variance, combinations and permutations, expected value, normal distributions, empirical rule, and confidence intervals, hypothesis testing, distributions and distribution testing, and experimental design.

Applied Math

Prerequisites: Algebra II

Grade: 11, 12

Length: Semester

Credit: 0.5

Applied math is a class for juniors and seniors who need their 4th credit of math. It uses topics studied in 9th and 10th grade math classes and applies them to real life. This class will be more project based. Applied Math will cover the following concepts: areas, surface areas, volumes, building plans, and mapping/street design, linear or quadratic regressions, and more....

ACT Math

Prerequisites: None

Grade: 11, 12

Length: Semester

Credit: 0.5

ACT Prep is a junior/ senior level class that discusses the topics that are tested on the national test. ACT Prep will help prepare students who are planning on taking the ACT test. Topics are extensions of Algebra 2, Trigonometry, Advanced Math, Probability and Statistics, and even some Geometry.

Math Lab

Prerequisites: none

Grade: 9-12

Length: 2 semesters

Credit: 0.5 for each semester

An opportunity for students to get extra help, as well as re-teaching and pre-teaching of concepts taught in either Algebra I, Geometry, Algebra II, or other math classes. Pass/Fail for Elective Credit.

MUSIC COURSE OFFERINGS

Course Title	Grade	Length	Credit	Prerequisites
Band	9, 10, 11, 12	Year	1.0	None
Music Theory	9, 10, 11, 12	Semester	0.5	None
Musical Theatre	9, 10, 11, 12	Semester	0.5	None
History of Rock and Roll	9, 10, 11, 12	Semester	0.5	None
Mixed Chorus A/B	9, 10, 11, 12	2 Semesters	0.5 for each semester	None
Select Chorus A/B	9, 10, 11, 12	2 Semesters	0.5 for each semester	Audition based
Modern Rock Ensemble	9, 10, 11, 12	Semester	0.5	None
Color Guard	9, 10, 11, 12	Semester	0.5	Attendance at Band Camp

Band

Prerequisites: None, prior experience in music is helpful

Grades: 9, 10, 11, 12

Length: Year Credit: 1.0

Membership to the CNE Marching Band is open to any student currently enrolled at CNE High School. New band students should notify the director if they wish to join the CNE Band Program. The band is for students who want to be there, and who want to work hard – a positive attitude and excellent attendance are expected of all band members. Attendance at band rehearsals and performances is not optional and will be part of your class grade. All band students must also attend summer band camp. Students who are concerned about work or other commitments should talk to the director before enrolling. Participation is expected of all members at Band Camp, Clermont County Fair Parade, after school practices, football games, additional performances, parades, contests and concerts. See Mr. Moore or the CNE HS Band Handbook for additional information.

Music Theory

Prerequisites: None

Grades: 9, 10, 11, 12

Length: Semester Credit: 0.5

Music Theory is an elective course where students will learn to read and write music. Students will learn how to write notes in Bass and Treble Clef, read basic notation using letter names and solfege syllables, common time signatures, basic rhythms, writing major and minor scales, interval relationships and transposition. Students will also learn to analyze and compose music. Students will study major and minor chords, harmonic progressions, rhythmic dictation, melodic dictation, and harmonic dictation.

Musical Theatre

Prerequisites: None

Grades: 9, 10, 11, 12

Length: Semester Credit: 0.5

Musical Theatre is a music elective class where students will learn about musical theater and Broadway. This course will cover the elements of theatre, backstage workings, and directing/designing musicals. Students will be responsible for keeping a journal of music examples used in class. One of the major projects of this class is to plan and prepare elements for the spring musical. Painting, organizing and creating set pieces and props. Organizing and maintaining lists and cue sheets.

History of Rock and Roll

Prerequisites: None

Grades: 9, 10, 11, 12

Length: Semester Credit: 0.5

History of Rock and Roll is a music elective class where students will learn about rock and roll music and society. Students will be responsible for keeping a journal of music examples used in class. Students will be presenting material in front of the class regularly

Mixed Chorus A/B

Prerequisites: None

Grades: 9, 10, 11, 12

Length: 2 Semesters Credit: 0.5 for each semester

Mixed Chorus is a large ensemble in which students sing and perform throughout the school year. A varied repertoire of music representing diverse genres and cultures will be studied and performed. Students learn to respond to the cue of a director. Also students learn to demonstrate technical accuracy, tone quality, articulation and expressions as well as proper posture and breath control that is necessary for the songs performed.

Select Chorus A/B

Prerequisites: Audition-based

Grades: 9, 10, 11, 12

Length: 2 Semesters Credit: 0.5 for each semester

Select Chorus is an auditioned choir in which students sing and perform a difficult level of music repertoire throughout the school year. This choir is designed for students that have a desire to sing and perform more serious repertoire than in Mixed Chorus. select chorus competes and travels. A thorough knowledge of music theory is developed in this class. Students will perform in 4-8 part harmony and will prepare sight-singing exercises to prepare for Ohio Music Educators Association Large Group contest. Choreography is sometimes involved in the music that is performed. A varied repertoire of music representing diverse genres and cultures will be studied and performed. Students learn to respond to the cue of a director. Also students learn to demonstrate technical accuracy, tone quality, articulation and expressions as well as proper posture and breath control that is necessary for the songs performed.

Modern Rock Ensemble

Prerequisites: none

Grades: 9, 10, 11, 12

Length: Semester Credit: 0.5

Students learn to perform, improvise and compose individually and collaboratively using the popular styles that they know and love including rock, pop, reggae, hip hop, R & B and other modern styles. Students in Modern Rock Ensemble should have proficiency on an instrument, and will increase their abilities. Beginners are welcome, but should check with Mr. Moore about their playing ability before requesting this class. Instruments in modern band will be guitar, bass, keyboard, drums, vocals, horns. Students will participate in several performances throughout the school year.

Color Guard

Prerequisites: Attendance at Band camp

Grades: 9, 10, 11, 12

Length: Semester Credit: 0.5

Membership to the CNE Marching Band Color Guard is open to any student currently enrolled at CNE High School. The band is for students who want to be there, and who want to work hard – a positive attitude and excellent attendance are expected of all band members. Attendance at band rehearsals and performances is not optional and will be part of your class grade. All band students must also attend summer band camp. Students who are concerned about work or other commitments should talk to the director before enrolling. Participation is expected of all members at Band Camp, Clermont County Fair Parade, after school practices, football games, additional performances, parades, contests and concerts. See Mr. Moore or the CNE HS Band Handbook for additional information.

PHYSICAL EDUCATION AND HEALTH

Course Title	Grade	Length	Credit	Prerequisites
Physical Education I	9, 10, 11, 12	Semester	0.25	None
Physical Education II	9, 10, 11, 12	Semester	0.25	PE I
Health	9, 10, 11, 12	Semester	0.5	None
Weight Training	10, 11, 12	Semester	0.5	PE I and II or exemption
Advanced Physical Education	10, 11, 12	Semester	0.5	PE I and II or exemption

Students who complete two seasons of any sport, cheerleading, or marching band may be exempt from Physical Education courses. This does not include Academic Quiz Team. Students must apply for PE exemption through the guidance office and coaches/advisors must confirm students' participation on designated forms.

Physical Education I

Prerequisites: None

Grades: 9, 10, 11, 12

Length: 1 semester Credit: 0.25

This course focuses on the fundamental components and principles of fitness, including competency in motor skills, movement patterns, and strategies needed to perform a variety of physical activities. The goal is to equip students with the knowledge and skills needed to maintain a health-enhancing level of fitness throughout their lives. This course is based on physical activities undertaken in an active, caring, supportive and non-threatening atmosphere in which every student is challenged and successful. The aim is to provide every student with a wide variety of physical activities and challenges that will contribute to the development and maintenance of their physical, cognitive, and affective well being.

Physical Education II

Prerequisites: PE I

Grades: 9, 10, 11, 12

Length: 1 semester Credit: 0.25

A continuation of Physical Education I. (see above)

Health

Prerequisites: None

Grades: 9, 10, 11, 12

Length: 1 semester Credit: 0.5

This course of study contains instructional objectives for grades K-High School in accordance with state law. The health areas of concentration for this course are as follows: nutrition, substance use/abuse, disease prevention/control, safety/injury prevention and control, and wellness.

Weight Training

Prerequisites: Completion of 2 PE courses, with a "C" or higher; Or obtained PE exemption

Grades: 10, 11, 12

Length: 1 semester Credit: 0.5

This course is designed to give students the opportunity to learn fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities, as well as designing their own fitness plan. Students will learn the basic fundamentals of strength training, aerobic training, and overall fitness training and conditioning. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime.

Advanced Physical Education

Prerequisites: Completion of 2 PE courses, with a "C" or higher; Or obtained PE exemption

Grades: 10, 11, 12

Length: Semester Credit: 0.5

Advanced Physical Education will provide learning opportunities for students to further develop skills and knowledge related to fitness, physical competence, cognitive understanding and positive attitudes about physical activity that promote a healthy and physically active lifestyle. Students in the Advanced PE course will display a more advanced understanding of popular team and individual sports, use creativity and prior knowledge to play innovative games, and demonstrate good sportsmanship at a high level of play.

SCIENCE

Course Title	Grade	Length	Credit	Prerequisites
Honors Biology A/B	9, 10	2 semesters	0.5 for each semester	Teacher Recommendation
CP Biology A/B	9, 10	2 semesters	0.5 for each semester	None
CP Introduction to Chemistry	10, 11, 12	Semester	0.5	None
CP Introduction to Physics	10, 11, 12	Semester	0.5	None
CP Chemistry A/B	10, 11, 12	2 semesters	0.5 for each semester	C or higher in Biology and Algebra I
Honors Chemistry	10, 11, 12	2 semesters	0.5 for each semester	Algebra I, Honors Biology
CP Physics	11, 12	1 year	1.0	C or higher in Algebra II and Chemistry
Environmental Science A/B	11, 12	2 semesters	0.5 for each semester	Biology
CP Anatomy and Physiology A/B	11, 12	2 semesters	0.5 for each semester	Biology, Chemistry
Fundamentals of Astronomy	10, 11, 12	Semester	0.5	Algebra I and Physical Science
Zoology	11, 12	Semester	0.5	Biology
College Biology I (CCP)	11, 12	1 year	1.0	Biology, Teacher Recommendation
Engineering A	10, 11, 12	Semester	0.5	Algebra I, Biology
Engineering B	10, 11, 12	Semester	0.5	Algebra I, Biology

Honors Biology A/B

Prerequisites: None

Grade: 9, 10

Length: 2 semester Credit: 0.5 for each semester

In Biology, students will explore the field of molecular biology: this includes scientific methodology, biochemistry, characteristics of life, cell structure and function, energy production in the cell, cell division, DNA structure composition and basic genetics. Additionally, students will explore history of life on Earth, evolutionary theory, classification of organisms, population genetics, interspecies and intraspecies relationships, ecosystem dynamics, and biome trends and characteristics. Honors Biology will have additional assignments and move at an accelerated pace.

CP Biology A/B

Prerequisites: None

Grade: 9, 10

Length: 2 semester Credit: 0.5 for each semester

In Biology, students will explore the field of molecular biology: this includes scientific methodology, biochemistry, characteristics of life, cell structure and function, energy production in the cell, cell division, DNA structure composition and basic genetics. Additionally, students will explore history of life on Earth, evolutionary theory, classification of organisms, population genetics, interspecies and intraspecies relationships, ecosystem dynamics, and biome trends and characteristics.

Introduction to Chemistry

Prerequisites: none

Grade: 10, 11, 12

Length: Semester Credit: 0.5

This course will satisfy the physical science requirement for graduation when taken in conjunction with CP Introduction to Physics. This course is also designed to provide the foundations necessary to take CP Chemistry. Topics that will be covered in this course includes Introduction to Matter (atoms, chemical and physical changes, heat and temperature, ions, bonding basics, and the periodic table. This course will also introduce the necessary mathematical skills necessary for continued chemistry studies.

Introduction to Physics

Prerequisites: none

Grade: 10, 11, 12

Length: Semester Credit: 0.5

This course will satisfy the physical science requirement for graduation when taken in conjunction with CP Introduction to Chemistry. This course is also designed to provide the foundations necessary to take CP Physics. Topics that will be covered in this course includes introduction to motion, energy, work, power, forces, waves, and electricity. This course will also cover introductory space science.

Honors Chemistry A/B

Prerequisites: Honors Biology and Algebra I

Grade: 10, 11, 12

This course will satisfy a physical science credit requirement for graduation. This course is designed for students that are considering a college degree related to science. This course will cover all of the topics included in CP Chemistry A/B and, in addition, the topics of states of matter, gases, acids and bases, titrations, and pH.

CP Chemistry A/B

Prerequisites: "C" or higher in Biology and Algebra I

Grade: 10, 11, 12

Length: 2 semesters Credit: 0.5 for each semester

Chemistry is the study of matter and the changes that matter undergoes, with emphasis on the composition of matter, atomic theory, periodic law, chemical bonding, formula, writing, and stoichiometry. Time permitting Nuclear Chemistry and/or other topics. Chemistry is recommended for college bound students.

CP Physics

Prerequisites: "C" or higher in Algebra II and Chemistry

Grade: 11, 12

Length: 1 year Credit: 1.0

Physics deals with matter and energy and their transformation, with emphasis on understanding the basic principles of measurements, forces and motion, mechanics, and wave motion. Time permitting Nuclear Physics and/or other topics. Sections must be taken consecutively.

Environmental Science A/B

Prerequisites: Biology

Grade: 11, 12

Length: 2 semesters Credit: 0.5 for each semester

Environmental Science is designed to look at the physical concepts of Earth's environments. Based on physical sciences, this course will cover topics such as management of Earth's systems, atmospheric affects on Earth's surface, meteorology, Earth geologic history, Earth's composition and structure, geological impact on the environment, and human role on the environment. Additionally, students explore ecological concepts of Earth's environments. Based on life sciences, this course will cover topics such as biodiversity, ecosystem dynamics, interdependence of organisms, population dynamics, biogeochemical cycles, pollution and waste management.

Anatomy and Physiology A/B

Prerequisites: Biology, Chemistry

Grade: 11, 12

Length: 2 semesters Credit: 0.5 for each semester

Students will explore many different systems of the human body. The units to be covered include but not limited to: Levels of organization, skeletal system, muscular system, the cardiovascular system and the digestive system.

Additionally, students explore humans as living organisms. Units to be covered will include but not limited to: Transport, the nervous system, the lymphatic system, the endocrine system, and the heart.

CCP credit for Anatomy and Physiology available through the University of Cincinnati to students taking this course.

Fundamentals of Astronomy

Prerequisites: Algebra I and Geophysical Science

Grade: 10-12

Length: Semester Credit: 0.5

Take a voyage starting on Spaceship Earth, traveling out through the planets and other bodies in our solar system, and ending up light years away. This course will require students to participate in several night viewings, journaling exercises, and long-term investigation studies. A final project will be required for this course.

Zoology

Prerequisites: Biology

Grade: 11, 12

Length: Semester Credit: 0.5

All beasts, great and small, are the focus of this introduction to zoology course. Beginning with simple creatures such as sea sponges and jellyfish, we climb the evolutionary ladder through the first animals to venture out of the oceans and eventually reaching the biodiversity of animals we find today. Part of this course will include long-term projects, such as “turtles and telemetry”, inquiry-based lab exercises, and ~~research~~ conservation projects using our aquaponics system. This course will require dissections.

Engineering A

Prerequisites: Algebra I and Biology

Grade: 10-12

Length: Semester Credit: 0.5

Engineering A engages students in authentic engineering practices in a project-based environment. Students complete a series of socially relevant design challenges to develop engineering design skills and habits of mind. Anticipated projects include: Designing pinhole cameras for special needs customers, and creating and testing “earthquake proof” building models.

Engineering A

Prerequisites: Algebra I and Biology

Grade: 10-12

Length: Semester Credit: 0.5

Engineering B engages students in authentic engineering practices in a project-based environment. Students complete a series of socially relevant design challenges to develop engineering design skills and habits of mind. Anticipated projects include: Reverse Engineering a product, introductory computer coding, basic circuitry, and aerial imaging.

College Biology I (CCP)

Prerequisites: Biology, Teacher Recommendation

Grade: 11, 12

Length: 1 year Credit: 1.0

This course is designed for Biology majors and students whose programs require a majors' level course in biology. This course introduces the fundamental characteristics of life, from the molecular to the cellular level, with an emphasis on structure-function relationships and placed in an evolutionary context. Topics covered include: chemicals of life, cell biology, bioenergetics, cell cycle, genetics, DNA replication, protein synthesis, and gene regulation. Students who successfully complete the course requirements will earn 3 hours of transcripted credit from UC.

SOCIAL STUDIES

Course Title	Grade	Length	Credit	Prerequisites
World History A/B	9	2 semesters	0.5 for each semester	None
American History A/B	10	2 semesters	0.5 for each semester	World History
US Government	11	Year	1	World History, American History
AP US History	10, 11, 12	Year	1.0	World History, American History and Teacher Recommendation
World Geography	9-12	Semester	0.5	none
Pre 1500 World History	9 – 12	Semester	0.5	none
Military History	10, 11, 12	Semester	0.5	World History
War in the 20 th Century	10-12	Semester	0.5	World History
Sociology	9-12	Semester	0.5	none
CCP HIST 1001: United States History I	10-12	Semester	0.5	World History, Teacher Recommendation
CCP HIST 1002: United States History II	10-12	Semester	0.5	World History, Teacher Recommendation, CCP HIST 1001

CP World History A/B

Prerequisites: None

Grade: 9

Length: 2 semesters Credit: 0.5 for each semester

CP World History topics will include the Enlightenment and Revolution, the Industrial Revolution, Imperialism, and World War I. During the 2nd semester of World History, topics will include the Russian Revolution, Rise of Totalitarian leaders, World War II, the Cold War, and the Post-Cold War Era.

CP American History A/B

Prerequisites: World History

Grade: 10

Length: 2 semesters Credit: 0.5 for each semester

CP American History will deal with American history from 1877 through the Modern Age. Within the year, students will review historic events, and expand on them by analyzing and explaining the impact or reasons the events made history.

Government

Prerequisites: None

Grade: 11

Length: Year Credit: 1

Students will study the structures, purposes, and processes of political systems at the local, state, national, and international levels. The role of democracy and the US Constitution will be examined. The rights and responsibilities of American citizens will be studied with an emphasis on the role of individual participation. Students will also learn about economics and meet their financial literacy requirement through this course.

Advanced Placement US History

Prerequisites: World History and Teacher Recommendation

Grade: 10, 11, 12

Length: 1 year Credit: 1.0

Students will be engaged in a variety of different education techniques, such as evaluation of historical concepts, analysis of historical documents, development of document based questions, and a thorough analysis of American historical events including social, cultural, economic, and political aspects. The objective of this course is for students to develop higher order thinking, writing, and participation skills and to help successfully prepare students for the Advanced Placement United States History exam in May. This course is a weighted course, adding 1.0 to the weighted GPA.

World Geography

Prerequisites: none

Grade: 9-12

Length: Semester Credit: 0.5

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

Pre-1500 World History

Prerequisites: none

Grade: 9-12

Length: Semester Credit: 0.5

This course examines World Studies from the period of 750 B.C. to 1500 A.D. Students will begin with an exploration of the world of antiquity continuing through to what is considered the modern age. This is an integrated study of World History, beginning in Ancient Greece and ending with an examination of global exploration. Students will be able illustrate how historic events are shaped by geographic, social, cultural, economic and political factors over space and time. Students will also develop their understanding of how ideas and events from the past have shaped our world today.

Sociology

Prerequisites: None

Grade: 9-12

Length: 1 semester Credit: 0.5

An elective course centered on the behavior of people in groups. Topics included are socialization, institutions, social interaction, social change, collective behavior, and competition in society. Activities include research, group activities and simulations.

Military History

Prerequisites: World History

Grade: 10, 11, 12

Length: Semester Credit: 0.5

Examine the role of the military and conflict on both the ancient and modern world. Students will research and analyze the strategic, technological, cultural, and political influence of warfare on human history and the development of civilizations from Ancient Greece to the war in Afghanistan. Additionally, this course will debate the many reasons why Military History is the most common theme of modern popular history.

War in the 20th Century

Prerequisites: World History

Grade: 10, 11, 12

Length: Semester Credit: 0.5

Examine the role of the military and conflict of the modern world, particularly U.S. involvement. Students will research and analyze the strategic, technological, cultural, and political influence of warfare on human history, starting with World War I through the war in Afghanistan. Additionally, this course will debate the many reasons why Military History is the most common theme of modern popular history.

CCP HIST 1001: United States History I

Prerequisites: World History and Teacher Recommendation

Grade: 10, 11, 12

Length: Semester Credit: 0.5

This course explores the settlement and expansion of the American colonies, the establishment and expansion of the United States during the first half of the nineteenth century and the social, economic, and political divisions that lead to the outbreak of Civil War and continuing regional rifts following 1865.

CCP HIST 1002: United States History II

Prerequisites: World History, Teacher Recommendation, CCP HIST 1001

Grade: 10, 11, 12

Length: Semester Credit 0.5

This course is the second part of a two-semester sequence which surveys U.S history from the end of Reconstruction through the late 20th century. The class will cover social and cultural movements in addition to key political developments, and will introduce students to the major forces which shaped American life during the late nineteenth and twentieth centuries. The class explores issues of race, gender, and class, the immigrations and migrations of peoples indigenous and not, industrialization/technology, war and foreign policy, and analyzes the ways in which they influenced Americans and society at large, and considers their historical implications. Readings and discussions will emphasize American's experiences, understandings, and convictions within the broader national and global context.

WORLD LANGUAGE

Course Title	Grade	Length	Credit	Prerequisites
Spanish I A/B	9, 10, 11, 12	2 Semesters	0.5 for each semester	None
Spanish II A/B	9, 10, 11, 12	2 Semesters	0.5 for each semester	Spanish I, C or higher
Spanish III A/B	10, 11, 12	2 Semesters	0.5 for each semester	Spanish II, C or Higher
Spanish IV A/B	11, 12	2 Semesters	0.5 for each semester	Spanish III, C or Higher
History of Hispanic Countries	9, 10, 11, 12	1 Semesters	0.5	None
Hispanic Cultures	9, 10, 11, 12	1 Semesters	0.5	None

Spanish I A/B

Prerequisites: None

Grades: 9, 10, 11, 12

Length: 2 Semesters Credit: 0.5 for each semester

Spanish I is an introduction to Spanish geared to learners with no prior language experience. The course will cover learning how to talk about yourself, family and friends, preferences, what you have to or are planning to do, basic Spanish grammar (such present tense verb conjugation, adjective agreement), and basic vocabulary such as date, time, weather, clothing, food, school, sports, activities, emotions, descriptions, etc.

Spanish II A/B

Prerequisites: Spanish I, C or higher

Grades: 9, 10, 11, 12

Length: 2 semesters Credit: 0.5 for each semester

Spanish 2 is a continuation of Spanish 1. Students will add to knowledge and skills gained in Spanish 1 and increase their fluency in communication. Spanish 2 students will learn how to talk about events in the past and on-going events, give commands, use reflexive verbs, ask for directions, order in a restaurant, tell stories, shop and haggle in a marketplace; use numbers 1-1,000,000, etc. Emphasis on learning decoding skills in reading and language connection.

Spanish III A/B

Prerequisites: Spanish II, C or higher

Grades: 10, 11, 12

Length: 2 semesters Credit: 0.5 for each semester

Spanish 3 will complete the grammar/verb conjugation instruction from Spanish 1 and 2. Students will increase the vocabulary knowledge and communication skills acquired in previous levels. Spanish 3 will cover: present and past subjunctive tenses; imperative tense; future tense; conditional tense; all perfect tenses, use of direct and indirect object pronouns, por vs. para; giving advice; traveling; and a vocabulary on a variety of topics.

Spanish IV A/B

Prerequisites: Spanish III, C or Higher

Grades: 11, 12

Length: 2 semesters Credit: 0.5 for each semester

Students will refine the skills they have acquired in previous classes in order to explore current events and to increase their abilities in Spanish reading and listening comprehension, speaking, and writing. Spanish 4 is an independent study course, usually held at the same time as another level class. Topics for Spanish 4 will be chosen jointly by the instructor and student, but may include novels, short stories, poetry, film, history, mythology, art or popular culture as well as career-centered vocabulary, depending on the future plans and interests of the student.

History of Hispanic Countries

Prerequisites: None

Grades: 9, 10, 11, 12

Length: 1 Semesters Credit: 0.5

Taught in English, this course will survey the geography, societies, and political influences of Spanish-speaking countries. From Roman conquest, separate Medieval kingdoms and the unification of Spain through the Exploration of the New World, Imperialism, and the Golden Age to Revolution and Current Events, this course will give an overview of Spain, its colonies, and their development. Students should expect to learn about the geography of Spain, Mexico, and Central and South America, including capitals and natural wonders as well as the Indigenous peoples, conquistadors, and modern leaders.

Hispanic Culture

Prerequisites: None

Grades: 9, 10, 11, 12

Length: 1 Semesters Credit: 0.5

Taught in English, explore the twenty-one countries around the world that have Spanish as their official language. In this course students will gain cultural competence in geography, cuisine, art, music, currency, literature, celebrations, and tourism of Spain and Latin American countries. Students will learn in-depth geography, important natural resources and natural wonders of each country, as well as what currency is used and exchange rates. Each country offers unique celebrations and holidays which coexist with special food dishes. Gain an appreciation of famous musicians, authors, artists, genres of music, and dance.