

CATHOLIC CENTRAL

HIGH SCHOOL

2017-2018

COURSE DESCRIPTION BOOK

Catholic Central High School Graduation Requirements

4.00 credits	Religion ¹
4.00 credits	English
4.00 credits	Mathematics
3.00 credits	Science
3.00 credits	Social Studies ²
2.00 credits	Foreign Language
1.00 credits	Fine Arts
0.50 credits	Health
0.50 credits	Physical Education ³
<u>4.00 credits</u>	Electives
26.00 credits	TOTAL

1. Students must take a religion course for every year they attend Catholic Central.
2. Econ/Financial Literacy is part of the CCHS graduation requirements.
3. Students can obtain a Physical Education waiver if they participate in two full seasons of an interscholastic sport and/or cheerleading.

**These courses are given weighted value in calculating G.P.A.: AP Calculus, AP Chemistry, AP Biology, AP Literature & Composition, AP U.S. History, and AP European History, English 1111, English 1112, Math (Elaine will fix)*

Class standing: Class standing shall be determined prior to the beginning of each school year with the total credits not being less than the following:

Freshman	8 th Grade Certificate
Sophomore	6.75 Credits
Junior	13.50 Credits
Senior	20.00 Credits

Common Ohio College/University Requirements

4.00 credits	English
4.00 credits	Mathematics
3.00 credits	Science
3.00 credits	Social Studies
1.00 credits	Fine Arts
2.00 credits	Foreign Language

CAUTION:

Students may not drop courses once the master schedule is set.

ADVANCED PLACEMENT INFORMATION

What is Advanced Placement?

Advanced Placement (AP) classes are college level classes taught during high school. The College Board designates the classes and monitors the syllabus and class plan for each class. In May at the end of the year a carefully supervised, very difficult Advanced Placement Exam is given for each class.

Why take an AP class?

1. It is good to have the challenge of the class. It enhances and strengthens the student's education.
2. It helps prepare the student for college classes.
3. It may enable the student to receive college credit.
4. It makes a stronger transcript.

Is an AP class more difficult than a regular class?

ABSOLUTELY! The level of work will be more rigorous with more reading and writing required.

What AP classes are offered at Catholic Central?

Juniors European History, Chemistry, US History

Seniors European History, Chemistry, Biology, US History

Calculus AB, Calculus BC, English Literature and Composition

-AP Chemistry and AP Biology classes are two periods per day to allow for labs.

-AP European History and AP US History are taught on a rotating basis

How are Advanced Placement Exams scored?

AP tests are given a score from 1-5. Colleges give credit generally from 3 and above. Whether college credit is given is completely up to the college and varies widely from college to college.

For example, one college may give credit for a 3 or above, another for a 4 or above and yet another may require a 5. Many college web sites will tell you what score is required for credit.

Is a student taking an AP class required to take the Exam?

Yes, Catholic Central requires each AP student to take the test (as do most schools).

What is the financial cost of taking an AP class?

The cost of an AP exam is about \$96 (the cost this year) and is paid for by the parents.

How does a student sign up for an AP class?

Students complete their Course Selection Form with Ms. Struck when scheduling for next school year. An AP class cannot be dropped.

AP Offerings and Expectations 2017- 2018

	Pre-Reqs	Minimum cum. GPA	Teacher Rec?	Summer expectations	Winter Term Expectations	Daily Reading/Writing Expectations
AP Biology	87% or better in Biology and Chemistry Anat. and Physiol. HIGHLY recommended	3.25	YES	Students are expected to read and complete online assignments for review chapters. A test over these chapters is given during the first week of school.	Students are expected to read and complete online assignments weekly.	30-60 minutes/day outside of class to read, review or complete assignments
AP Calculus AB	85% cumulative average in Algebra I, Algebra II, Geometry, and Hon. Pre-Calculus	3.25	YES	Summer review assignment required		1 hour/day outside of class, average time spent daily for assignments
AP Calculus BC	AP Calculus AB	3.25	YES			30 minutes/day outside of class, average time spent daily for assignments
AP Chemistry	87% or better in Chemistry and Algebra II	3.25	YES	Summer reading will be assigned and tested over the first week of school.		30-60 minutes/day outside of class to read, review, or complete assignments
AP English Literature and Composition	93% cumulative average in previous 3 years of English	3.25	From current English teacher	Students will read several novels over the summer and will be tested over those novels at the beginning of the next school year.		Depending on the text we are reading students can expect to read anywhere from 50-70 pgs. /night. There will be weekly timed writing assignments and frequent essays.

	Pre-Reqs	Minimum cum. GPA	Teacher Recommendation	Summer expectations	Winter Term expectations	Daily Reading/Writing Expectations
AP European History*	90% average in World and U.S. History	3.25	From current history or religion teacher	Background reading on the Middle Ages along with written assignments; map work on modern Europe and European geography. Tests beginning of school year	Reading and written work comparable to what would be accomplished if we were in class	Between 30 and 60 minutes most days
AP US History*	90% average in World and U.S. History	3.25	From current history or religion teacher	Background reading on the Americas prior to European settlement along with written assignments; map work on North American geography. Tests beginning of school year	Reading and written work comparable to what would be accomplished if we were in class	Between 30 and 60 minutes most days

*** AP US History and AP European History are offered on an every other year basis.
ALL AP students are required to take the AP exam in the spring. The cost for the 2017 exam is \$96.**

College Credit Plus (CCP) Elaine will update this page!

What is CCP?

A CCP course is a college course taken by a high school student for which the student earns both college and high school credit at the same time. CCP classes are taught by one of our teachers who is credentialed by Clark State or the University of Cincinnati.

What classes are available for dual credit?

Catholic Central will offer three CCP math classes for the 2017-2018 school year: *AP Calculus* (5 semester hours), *Honors Pre-Calculus* (5 semester hours), and *Pre-Calculus* (4 semester hours as College Algebra).

During the Winter Term 2017, Engineering Foundations will be offered through the University of Cincinnati for 2 semester hours.

How does taking a dual credit class affect taking the AP exam?

STUDENTS ENROLLED IN THE CCP CLASS ARE STILL REQUIRED TO TAKE THE AP EXAM IN MAY. There is no change to the school policy regarding the AP exam requirement.

What is the cost of the course(s) through Clark State?

The 2017-18 costs are \$41.50 per credit hour.

What colleges accept Clark State credit?

Clark State credits transfer to many Ohio colleges and universities. Specific instructions regarding transfer can be found at the following sites:

http://www.clarkstate.edu/transferring_credits_to_/from_another_college.php

<http://transfercredit.ohio.gov>

Will the CCP classes be weighted?

Under the guidelines of CCP, all CCP classes will be weighted like AP classes are.

How do I register for classes?

Students enrolling for next school year will need to apply online in the spring before the 2017-18 school year. They must pass the placement exams as defined by Clark State (COMPASS Test or ACT). Students enrolling for University of Cincinnati must submit UC Placement test scores (will be administered at CCHS) and/or or ACT/SAT scores.

When do I pay for the class?

Clark State will issue invoices to the families of CCP students.

*There may be adjustments made to the dual enrollment classes which we are unaware of at the time of printing the 2017-18 Course Description.

High School Course Descriptions

BUSINESS DEPARTMENT

	Grade 11	Grade 12
	Accounting I	Accounting I or II
	Introduction to Business	Introduction to Business

Introduction to Business

Credit: 1.00

Term: Year

Grades 11-12

Introduction to Business provides an introduction to the business world and helps students to understand their economic environment. It is an ideal course for both those who are considering business as a vocational field and those who wish to acquaint themselves with the economic activity in the United States. The course content includes business math, economic security, individual and family finance, taxation, careers, money and banking, and other economic aspects.

Accounting I

Credit: 1.00

Term: Year

Grades 11-12

Accounting I is intended for students interested in a vocation **either in the field of business administration or in the field of accounting**. The course deals with the basic principles of accounting and the entire accounting cycle for both sole proprietorships and for merchandising entities.

Accounting II

Credit: 1.00

Term: Year

Grade 11-12

PREREQUISITE: Accounting I

This course is designed for senior students **who plan to major in business administration or accounting in college** or who intend to go into the accounting field. Included in the topics of this course will be accruals and deferrals, payroll accounting, depreciation and depletion, and the different methods of accounting used in business.

ENGLISH DEPARTMENT

Grade 9	Grade 10	Grade 11	Grade 12
English I, CP Genre Studies	English II, CP American Literature	English III, CP World Literature	English IV, CP British Lit & Comp
English I, Honors Genre Studies	English II, Honors American Literature	English III, Honors World Literature	AP English Lit & Comp
Public Speaking	Public Speaking	Public Speaking	Public Speaking

English I, Honors Genre Studies

Credit: 1.00

Term: Year

Grade: 9

Recommendation of current English Teacher

This course provides an in-depth study of the various types of literature, including non-fiction, short stories, poetry, novels, mythology, and drama. Part of the study includes written analysis of these various forms along with the creation of original stories, essays, and poems. Full-length works may include *Romeo and Juliet*, *To Kill a Mockingbird*, and *The Odyssey*. Students will also practice the writing of a multi-paragraph narrative and descriptive, expository, and persuasive essays on various topics of their choice. Revision and portfolio assessment will be emphasized throughout the year. Taking this course for CCP credit is an option. **Summer reading is required.**

English I, College Prep Genre Studies

Credit: 1.00

Term: Year

Grade: 9

Recommendation of current English teacher

Students will learn a writing process that will help in composing narrative, descriptive, and expository paragraphs and essays. Grammar, usage, and mechanics, and literary terminology will be covered so that students learn to apply these concepts in their own writing. Throughout the year, students will read and discuss various forms of literature: the short story, the novel, the non-fiction essay, drama, and poetry. Full-length texts include *Romeo and Juliet* and *Jurassic Park*. **Summer reading is required.**

English II, Honors American Literature

Credit: 1.00

Term: Year

Grade 10

PREREQUISITE: English I Honors or recommendation of English I teacher

This course includes a chronological/thematic survey of American literature from colonial times to the modern era in all genres. Full-length works include *The Crucible* and *The Great Gatsby*. Students will build on the skills of the previous year in composing more developed multi-paragraph narratives and expository and persuasive essays. They will also write and deliver several types of speeches, such as a poem interpretation. Students will also complete a research-based thematic unit. The goal is to integrate and constantly reinforce the learning of all language skills throughout the year. Correct grammar, usage, and mechanics are reinforced within the context of student writing while vocabulary development will take place within the context of the study of literature. Taking this course for CCP credit is an option. **Summer reading is required.**

English II, College Prep American Literature

Credit: 1.00

Term: Year

Grade 10

PREREQUISITE: 93% average in English I, overall grade point average of 3.25, recommendation of current English teacher

This course includes a chronological/thematic survey of American literature from colonial times to the modern era in all genres. Full-length works include *A Raisin in the Sun* and *The Great Gatsby*. Students will compose multi-paragraph narratives and expository and persuasive essays. They will also write and deliver several types of speeches, such as a poem interpretation. The goal is to integrate and constantly reinforce the learning of all language skills throughout the year. Correct grammar, usage, and mechanics are reinforced within the context of student writing while vocabulary development will take place within the context of the study of literature. **Summer reading is required.**

English III, Honors World Literature

Credit: 1.00

Term: Year

Grade 11

PREREQUISITE: English I 93% cumulative average in English I and English II, cumulative overall GPA of 3.25, recommendation of current English teacher.

This course will be a rigorous study of literature from a cultures and times spanning ancient Greece to modern America. Students should be skilled writers and critical readers and have the discipline, responsibility, and concentration to grasp complex ideas, perform independent research, analyze, evaluate, and express themselves. This course will require additional reading and more extensive writing to prepare students for AP English Literature & Composition in their senior year. Sample texts include: *The Stranger* (Camus), *Nectar in a Sieve* (Markandaya), and *Things Fall Apart* (Achebe) as well as a number of theoretical texts. This course requires a significant research project and presentation. Taking this course for CCP credit is an option. **Extensive summer reading and written expression is required.**

English III, College Prep World Literature

Credit: 1.00

Term: Year

Grade 11

PREREQUISITE: English I and II

The course builds on students' skills in grammar, paragraph composition, and standard types and forms of writing. Rhetorical structures and argumentation are highlighted, and a complete understanding of essay construction is a major focus for the course. Writing skills are refined through essays, reports, summaries, and timed writing assignments. Students will read, study, and analyze world literature while improving their comprehension by using critical perspectives discussed in class and using their own perspectives to come to unique and original conclusions about the work we read. Students will examine the history and legacy of texts such as, *Oedipus Rex*, *Heart of Darkness*, and *Nectar in a Sieve*. **Summer reading is required.**

English IV, College Prep British Literature and Composition

Credit: 1.00

Term: Year

Grade 12

PREREQUISITE: English I, II, and III

The course provides students with the opportunity to further improve reading and writing skills in preparation for higher education as well as to explore various methods of composition development. Students will learn and practice various forms of creative writing in addition to practicing expository and rhetorical prose. Research, revision and good editing practices will be stressed. Peer critiquing will be developed and used as part of the writing process. Students will develop and improve comprehension and analytical skills through reading works by a variety of British writers. Students will

study a number of literary genres and will learn the characteristics of each. To demonstrate skill development, students will write compositions of summary, analysis, comparison and contrast, and others. Topics of interest will be researched and developed into reports, speeches, or research papers. This course requires the completion of a senior capstone research project and presentation. **Summer reading is required.**

Advanced Placement (AP) English Literature and Composition

Credit: 1.00

Term: Year

Grade 12

PREREQUISITE: English I, English II, Honors English III, 93% cumulative average in English I, English II and Honors English III, cumulative overall GPA of 3.25, recommendation of current English teacher.

This is an Advanced Placement course, which is provided for the student who intends to take a rigorous, college level class during his/her senior year. In addition to meeting the goals of English IV CP, the AP students will focus on developing a deeper understanding of literature. AP students will enhance their awareness and usage of language through effective writing and critical reading. Exercises in stylistic imitation, revision of longer essays, literary analysis, and study of diction, syntax, tone, structure, purpose, and meaning will be covered through the year. This course will require additional readings and a research paper/project. Students will read critically and analytically, resulting in an understanding of a wide range of literature that is rich in quality and representative of different literary forms and historical periods. Sample texts include: *The Things They Carried* (O'Brien), *Invisible Man* (Ellison), *The Sound and the Fury* (Faulkner) and *Crime and Punishment* (Dostoevsky). Additionally, this course requires the completion of the senior capstone research paper and presentation. Students can expect a significant reading load of between 50-80 pages of reading in an evening. **Taking the AP English Literature and Composition Exam in the spring is mandatory. There is a cost for taking the exam. Extensive summer reading and written expression is required. Advanced Placement students may be asked to purchase several books so they can have their own copies for highlighting, note taking, reference, etc. Taking this course for CCP credit is an option.**

Public Speaking

Credit: .50

Term: Semester

Grade 9-12

This class is a practical course designed to offer the novice speaker a number of opportunities to organize and prepare public speaking assignments. The course will also offer a "laboratory setting" where the beginning speaker can actually stand in front of a live audience and present his/her practiced performance. In addition to public speaking, further performance opportunities may be included in the area of public oral reading. Students will learn about the role of communication in our lives, the communication model, spatial relationships, delivery styles, and the effectiveness of language, gestures, and organization techniques.

***There may be some changes in the CCP Classes through Clark State that we are unaware of at the time of printing. We will provide you with the details as they become available.**

Course offerings are contingent upon class size and teacher availability.

FINE ARTS DEPARTMENT

Grade 9	Grade 10	Grade 11	Grade 12
Art I	Art I	Art I	Art I
Art II	Art II	Art II	Art II
Desktop Publishing	Art III	Art III	Art III
	Desktop Publishing	Desktop Publishing	Art IV
	Graphic Design	Graphic Design	Desktop Publishing
	Videography	Videography	Graphic Design
			Videography

Art I: .50 Term: Semester Grade 9-12
 Introduction and experimentation with two-dimensional and three-dimensional art emphasizing the elements and principles of design. Students will gain exposure to visual art through basic design, drawing, painting, sculpture, printmaking, illustration, and mixed media. Students will become familiar with art relate techniques, tools, vocabulary, and art appreciation and history. This course is the foundation from which most other art classes expand.

Art II: .50 Term: Semester Grade 9-12
Prerequisite: Art I with a grade of C or above OR permission of an art teacher
 This course is designed to expand upon the skills and fundamentals learned in Art I. Continued development of art awareness with a focus on the elements and principles of art and composition. More complex creative experiences will be encouraged to develop individual skills and style. Development of a personal art portfolio is an important aspect of this class.

Art III: .50 Term: Semester Grade 10-12
Prerequisite: Art II with a grade of B or above OR permission of an art teacher
 This course will provide the advanced art student further exposure to more in depth art studies focusing on various medias. Students will be expected to work on improving weak or problem areas. Individual work refining the art concentration needed for portfolio development will be required. Continued development of a personal art portfolio is required. Students will participate in art shows throughout the year.

Art IV: .50 Term: Semester Grade 11-12
Prerequisite: Art II/Art III with a grade of B or above OR permission of an art teacher
 This course is designed for the motivated art student who plans on pursuing visual arts in college. The depth and breadth of topics covered will vary from year to year based upon the instructors discretion and student needs. Designed to allow pursuit of a specialty focus, this class will provide the advanced art student further exposure to more in depth art studies focusing on various mediums. Students will be expected to develop weak/specific problem areas in which need improvement. Individual work refining the art concentration needed for portfolio development will be required. Students will participate in art shows throughout the year.

Desktop Publishing

Credit: .50

Term: Semester

Grades 10-12

The desktop publishing class is built around teaching students the the fundamental elements of publication. Students will work collaboratively through the entire semester to design and construct the school yearbook. To accomplish the goal of a successful publication, students will learn the basics of photography, graphic design, copy editing, and photo editing. Assignments will include students attending school events to capture and record important moments throughout the year and writing articles to be published in the yearbook. In addition to creating a successful publication, students will also learn to market and sell the yearbook by creating and implementing marketing campaigns throughout the year.

Graphic Design

Credit: .50

Term: Semester

Grades 10-11

Graphic Design uncovers each student's creative talent by allowing them to create several different projects. The students will create, logos, t-shirts, advertisements, brochures, posters, etc. Every year there is a t-shirt contest in which an outside clothing company sponsors Catholic Central. In the contest, each student submits a design, and one design from the class is selected to be printed and sold several hundred times. In Graphic Design, each student spends time learning the following programs: Illustrator, InDesign, and Photoshop.

Videography

Credit: .50

Term: Semester

Grades 11-12

PREREQUISITE: Graphic Design

In Videography, the students learn how to tell a visual story, how to work on a production crew, and how to edit in Final Cut Pro X (one of the largest video editing programs in the industry). This course operates by rotating production crew positions each week. The weekly goal is to create and broadcast video announcements for that particular week. This rotation allows each student to become a jack-of-all-trades. We study proper camera exposure and composition with Canon DSLR cameras so that each student can become a master of his/her video camera.

FOREIGN LANGUAGE DEPARTMENT

Grade 9	Grade 10	Grade 11	Grade 12
Spanish I	Spanish I	Spanish II	Spanish III
Spanish II	Spanish II	Spanish III	Spanish IV
	Spanish III	Spanish IV	Spanish V
		Spanish V	

Spanish I

Credit: 1.00

Term: Year

Grades 9 - 11

Spanish I will provide the student with a general introduction to the Spanish language: sound system, pronunciation, functional vocabulary related to everyday life, cultural information and basic grammatical structures. Emphasis will be on the acquisition of four skills: listening, speaking, reading, and limited writing. There are two main objectives to the course. Foremost is to give the students the ability to carry on a simple conversation. The second is to provide the students with instruction that teaches a basic understanding of Spanish culture, vocabulary, and grammatical concepts.

Spanish II

Credit: 1.00

Term: Year

Grades 9 –12

PREREQUISITE: Spanish I with a grade of 80% or better.

Spanish II builds upon knowledge gained in Spanish I. This course will also reinforce the skills learned in Spanish I: listening, speaking, reading and writing. Emphasis is on perfecting pronunciation, mastery of the basic grammatical structures (students will be exposed to the past tenses), and increased communicative proficiency. Acquisition of functional vocabulary is expected. Students will be expected to apply them in their writing and speaking.

Spanish III

Credit: 1.00

Term: Year

Grades 10 –12

PREREQUISITE: Spanish II with a grade of 87% or higher.

This course builds upon knowledge gained in Spanish I & II. The course is a continuation and recycling of knowledge acquired in Spanish I and Spanish II, as well as an introduction to new vocabulary, structures and expressions. Students will be expected to expand their vocabulary range to include more sophisticated terms, use advanced language expressions, verb tenses and grammatical concepts such as the present perfect, future tense and the subjunctive mood. Students will view Spanish language films and read selected Spanish literature.

Spanish IV

Credit: 1.00

Term: Year

Grades 11-12

PREREQUISITE: Successful completion of Spanish III AND teacher recommendation.

Reading, writing, speaking and listening skills will be further developed through readings that discuss the culture and history of Spanish-speaking countries. The use of technology will be implemented to further develop these skills. Spanish is the primary language spoken in the class.

A review of all major tenses and grammar points will be covered to prepare those students who are entering college. Students are held accountable for note-taking, oral discussions, written examinations and oral presentations exclusively in Spanish.

By the end of this course, students will be able to do the following:

- incorporate vocabulary related to the various themes studied in their spoken and written Spanish.
- review and refine spoken and written grammar.
- effectively communicate and express ideas in Spanish
- comprehend authentic spoken narratives in Spanish
- read selections in Spanish
- write short narratives in Spanish

Spanish V

Credit: 1.00 Term: Year Grade 12

PREREQUISITE: Successful completion of Spanish III AND teacher recommendation.

Reading, writing, speaking and listening skills will be further developed through readings that discuss the culture and history of Spanish-speaking countries. The use of technology will be implemented to further develop these skills. Spanish is the primary language spoken in the class.

A review of all major tenses and grammar points will be covered to prepare those students who are entering college. Students are held accountable for note-taking, oral discussions, written examinations and oral presentations exclusively in Spanish.

By the end of this course, students will be able to do the following:

- incorporate vocabulary related to the various themes studied in their spoken and written Spanish.
- review and refine spoken and written grammar.
- effectively communicate and express ideas in Spanish
- comprehend authentic spoken narratives in Spanish
- read selections in Spanish
- write short narratives in Spanish

Course offerings are contingent upon class size and teacher availability.

HEALTH/PHYSICAL EDUCATION DEPARTMENT

Health will be taught during Winter Term only. Physical Education is offered every other year during Winter Term (due to the large interest in using a Physical Education Waiver.)

Grade 9	Grade 10
Physical Education 1 (sequence)*	Physical Education 2*
Health*	

* REQUIRED COURSES

Health

Credit: .50

Term: Semester

Grade 9

This course is required for all ninth grade students. The health instruction program seeks to develop favorable health attitudes, knowledge and practices. Reverence for all forms and stages of life will be stressed in the health course, along with a concern for one's own well being and that of others.

Physical Education I

Credit: .25

Term: Semester

Grade 9

This course is required of all grade 9 students who did not complete a Physical Education Waiver.

The Physical Education Department recognizes the strong correlation between physical education and health. Vigorous muscular work is the foundation of a healthy body. This program is an essential part of the total education process. The growth and development of physical, mental, spiritual and social aspects of life are fostered in the physical education program.

Physical Education II

Credit: .25

Term: Semester

Grade 10

This course is required of all grade 10 students who did not complete a Physical Education Waiver.

Physical Education II continues the work that was begun in Physical Education I. It is assumed that the students will have mastered a basic understanding of good physical health habits and will know the rules of various games and activities. More emphasis is placed on the development of well-toned muscles and on the mental, spiritual, and social aspects of physical education.

***Students can obtain a Physical Education Waiver if they participate in two full seasons of an interscholastic sport or cheerleading during their high school career. Physical Education Waiver Forms will be sent home at a later date.**

MATHEMATICS DEPARTMENT

Grade 9	Grade 10	Grade 11	Grade 12
Algebra 1A	Algebra 1	Geometry	Algebra 2
Algebra 1	Geometry	Algebra 2	Pre-Calculus or Probability and Statistics or Honors Pre-Calc
Geometry (if Algebra 1 completed in 8th grade)	Algebra 2	Honors Pre-Calculus	Advanced Placement Calculus AB
Algebra 2 (teacher approval and prerequisites required)	Honors Pre-Calculus	Advanced Placement Calculus AB	Advanced Placement Calculus BC
			Probability and Statistics

Courses in the Mathematics Department are designed to meet the wide range of student ability in mathematics.

Algebra 1A

Credit: 1.00

Term: Year

Grade 9

This course introduces many of the topics of Algebra 1 with special emphasis on skill practice and problem solving. Using the Algebra I text, students are better prepared for a successful year in Algebra 1 in 10th grade. Students are expected to take Algebra I the following year to complete their understanding of Algebra IA.

Algebra 1

Credit: 1.00

Term: Year

Grades: 8, 9, 10

This course builds upon the basic algebraic concepts that students learned in middle school. This course is designed to provide a strong basis for future math courses. Students will deepen their understanding of linear and exponential relationships, as well as learn how to study relationships between quantities and reason with equations. Finally, students will be able to extend their knowledge of expressions, equations, and modeling.

Geometry

Credit: 1.00

Term: Year

Grades: 9-11

PREREQUISITE: Algebra 1

This course is designed for students who have completed Algebra 1. Students will focus on topics including geometric structure, congruence, similarity, and measurement. Students will create geometric constructions, prove geometric theorems, and utilize trigonometry in problem solving. Finally, this course will assist students as they visualize and model geometric figures.

Algebra 2

Credit: 1.00

Term: Year

Grades: 10-12

PREREQUISITE: Geometry

This course builds on the students' previous knowledge of linear, quadratic, and exponential functions. Students will focus on topics including polynomial, rational, and radical relationships; trigonometric functions; and finally, modeling with functions. Students will deepen their knowledge of functions to include polynomial, rational, and radical functions. This course will support students as they extend their ability to model situations and solve various equations.

Probability and Statistics

Credit: 1.00 total, .50 credit each

Term: Year

Grades: 11-12

PREREQUISITE: Algebra 2

Students who wish to study education, business, psychology, mathematics, engineering, science, or medicine in college will benefit from taking this class as it provides a basic framework in the study of statistics. This course teaches students to collect, organize, and draw conclusions from data. Students will design surveys, perform probability experiments, study sampling distributions, make statistical inferences, and test significance levels. Students will be able to use counting methods and probability formulas to evaluate the likelihood of certain events in addition to applying probability and statistical tests as decision-making tools in hypothesis testing applications.

Pre-Calculus

Credit: 1.00

Term: Year

Grades: 11-12

PREREQUISITE: Algebra 2 with a grade average of 85%

This course provides a strong foundation of advanced mathematical concepts and skills. Topics covered include elementary functions, polynomials, trigonometric functions, and equations. Sophisticated mathematical definitions, notations, and theorems are used. *Students in this course can earn 4 semester hours of college math credit through Clark State (MTH 1280 = College Algebra).*

Honors Pre-Calculus

Credit: 1.00

Term: Year

Grades: 10-12

PREREQUISITE: 87% cumulative average in Algebra 1, Algebra 2, Geometry, recommendation of instructor

This course is designed for students expecting to take college-level calculus. Moving at an accelerated pace, students will study elementary functions with additional polynomial topics, trigonometric functions and equations, and an introduction to limits and calculus. *Students in this course can earn 5 semester hours of college math credit through Clark State (MTH 1340 = Pre-Calculus).*

AP Calculus AB

Credit: 1.00

Term: Year

Grades: 11-12

PREREQUISITE: 85% cumulative average in Algebra 1, Algebra 2, Geometry, Honors Pre-Calculus

This course is designed for students of higher mathematics. Calculus is the mathematics of change and motion. This course will introduce two branches of calculus known as differential and integral calculus, following the Advanced Placement curriculum. The study of the subject demands a careful and exact application of definitions, axioms, and theorems, an imaginative approach to the analysis and solution of given problems, and a willingness to spend time and effort on a daily basis. *The AP Calculus exam in the spring is mandatory. There is a fee for the exam. Students in this course can earn 5 semester hours of college math credit through Clark State (MTH 2200 = Calculus I).*

AP Calculus BC

Credit: 1.00

Term: Year

Grades: 12

PREREQUISITE: AP Calculus AB

This is a full year course on calculus of a single variable. It reviews all the topics of AP Calculus AB and includes new topics such as derivatives of parametric, polar and vector functions, Euler's method for approximating differential equation solutions, logistic differential equations, improper integrals, integration using partial fractions, and polynomial approximations and series. *The AP Calculus exam in the spring is mandatory. There is a fee for the exam.*

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Course offerings are contingent upon class size and teacher availability.

Religion Department

Grade 9	Grade 10	Grade 11	Grade 12
Religion I (sequence)	Religion II	Religion III	Religion IV
Service Project I	Service Project II	Service Project III	Service Project IV

Religion I

Credit: 1.00

Term: Year

Grade: 9

Semester I: Introduction to the Catholic Faith (Ecclesiology and Sacraments)

During the first semester of their freshman year, students will examine the basic teachings and practices of the Catholic Church in order to lay a foundation for future religion classes. The course includes a study of Catholic beliefs about God and Jesus, Mary and the saints. It also introduces the sacraments, especially the Mass, various levels of Church teaching, Catholic Church organization and the roles of the pope, bishops, priests and laity. Various styles of prayer will be introduced and practiced with students. Through this course the students will be helped to grow more deeply in their faith by understanding that faith better and growing in their understanding of God’s Revelation which has manifested itself through the Catholic Church.

Semester 2: Who is Jesus Christ?

This course will introduce students to the person of Jesus as portrayed in the Gospels and in the preaching of St. Paul and other first century Christians whose message can be found in the New Testament. Students will study the historical development of the Old and New Testaments as well as Jesus’ historical context in order to better engage Scripture and understand its witness to Christ. Students will acquire a better understanding of the Kingdom of God and the ways in which Jesus Christ revealed it through his words and deeds. Finally, students will investigate how that message can be applied in their own lives and they will reflect on the question “What does it mean to be a follower of Jesus Christ?”

Religion II

Credit: 1.00

Term: Year

Grade: 10

Semester 1: God Revealed in the Old Testament

The course begins with a study of how the bible is organized and the history of its development. It then moves into a thorough study of the Old Testament, which will be approached both as a historical document and as the journey in faith of the Hebrew people. Students will study the lives of important Old Testament figures, as well as major themes and teachings found in the books of the Old Testament. They will look at the message of the Old Testament, especially the teachings of the prophets, and see how those messages can be applied to our lives today.

Religion III

Credit: 1.00

Term: Year

Grade: 11

Semester 1: Church History

The first semester focuses on the history of the Roman Catholic Church. The course begins with the Apostolic Era and ends with the election of Pope Francis I. Students will see how our past influences our present and will make connections to events and issues that we face in the Catholic Church today. Through this course students should come to see that they are “Church” and investigate their own role within the Roman Catholic tradition.

Semester 2: World Religions

The second semester will focus on World Religions. It begins by attempting to answer the question, “What is religion?” The course will go into some detail on the major world religions of Judaism, Christianity, Islam, Hinduism and Buddhism. Less time will be spent on religions such as Taoism, Shinto, Confucianism, Sikh, Neo-Paganism and other modern religions. The course will survey the history and main beliefs of each religion.

Religion IV

Credit: 1.00

Term: Year

Grade: 12

Semester 1: Peace and Justice

The Senior Religion course focuses on how we, as Christians, relate to the world around us. The first semester emphasizes Social Justice. Students will look at the teachings of the Catholic Church concerning Social Justice – especially papal Social Encyclicals written since the late 19th century and more recent authoritative sources. Students will then look at specific issues such as poverty, world hunger, racism, sexism and violence and will discuss how we, as Christians, are called to help eradicate these issues. This course utilizes the Magnified Giving program in youth philanthropy to help students engage with local social issues and the people and agencies working to address them.

Semester 2: Christian Lifestyles

The second semester of Senior Religion deals with how each of us, as individuals, lives out our Christian vocation in the daily world of school, work, and play. Students will look at the specific Christian vocations of single life, married life, vowed religious life and the ordained clergy with the goal of helping them to prayerfully discern to what state of life God is calling them.

SERVICE PROJECTS: All students at Catholic Central High School are required to complete a school approved Service Project each year. Failure to complete the Service hour requirements according to the guidelines found in the Student Handbook will result in the loss of 10% of the Religion grade for the quarter during which the requirement was not met. Failure to complete the Service Project by the last day of school will result in a final Religion grade no higher than a 70% for the year, with the expectation that the hours will be completed during the summer. The Religion grade, however, will remain a 70% even after the Service hours have been completed. A student cannot graduate from Catholic Central until he or she has completed their 120 hours of Community Service.

Specific details concerning the Service requirement for each grade level can be found in the Student Handbook and will be discussed at the beginning of each year by the Religion teachers.

SCIENCE DEPARTMENT

Grade 9	Grade 10	Grade 11	Grade 12
Integrated Science	Biology	Chemistry	Chemistry
Biology	Chemistry	AP Chemistry	AP Chemistry
		Anatomy/Physiology	Anatomy/Physiology
		Environmental Science	Environmental Science
		AP Biology	AP Biology
			Physics

Integrated Science

Credit: 1.00

Term: Year

Grade 9

This is a lab course designed to introduce beginning science students to Scientific and Engineering Processes and Cross-Cutting Concepts of the Next Generation Science Standards through chemistry, physics and earth science. Important skills to be developed include planning and carrying out investigations, analyzing and interpreting data, constructing explanations (science) and designing solutions (engineering), engaging in argument from evidence, and using mathematics / computational thinking.

Biology

Credit: 1.00

Term: Year

Grade 9-10

This course is primarily structured for those students with no previous biology training. It emphasizes the fundamental life concepts and processes common to all living organisms. It introduces major concepts of scientific method, classification of organisms, cell biology, basic biochemistry, genetics and basic ecology. Labs give a visual aid and help to reinforce the concepts of the topics covered.

Chemistry

Credit: 1.00

Term: Year

Grade 10 – 12

PREREQUISITE: SOPHOMORES need 93% or better in Integrated Science and an 87% or better in Algebra I (If able to take Biology and Chemistry concurrently);

SOPHOMORES need an 87% or better in both Biology and Algebra I.

JUNIORS/SENIORS need an 80% or better in Algebra.

This is an introductory course in chemistry designed for the college-bound student. The principles covered will be restricted to those which are basic to a beginning course in college chemistry, including atomic structure, chemical reactions and bonding, and solutions. The accompanying laboratory experiences are designed to be an enjoyable hard-working experience which emphasizes the function and form of chemistry along with proper laboratory techniques. This course has a strong mathematical basis.

Advanced Placement (AP) Chemistry

Credit: 1.00

Term: Year

Grade 11-12

PREREQUISITE: 87% or better in Chemistry; 87% or better in Algebra II.

AP Chemistry is the equivalent of first year college general chemistry, focusing on chemical calculations and mathematical formulation of chemical principles, and in depth laboratory experiments and proofs of calculations. *The laboratory experience will be equivalent to that of a typical college course in the expectation of safe and mature lab practices, self-driven applications of coursework concepts to extend knowledge, and data acquisition, manipulation, and presentation to demonstrate and share the extended knowledge gained.* **Summer reading will be assigned. The reading will be reviewed and tested the first week of school. Taking the A.P. Chemistry Exam in the spring is mandatory. There is a cost for taking the exam.**

Anatomy/Physiology

Credit: 1.00

Term: Year

Grade 11-12

PREREQUISITE: Chemistry with an 80% average, Biology I with an 87% average.

This course is designed for the second year biology student who is interested in a health or medical career. The course will cover the structure and functions of the various cells and tissues found in the human body, as well as basic biochemistry. The anatomy and physiology of the human body will be studied in depth and will include all of the major body systems. A lab portion of this course will incorporate dissections of various organs and physiology experiments in order to reinforce lecture topics. Students will need to focus on both memorization of anatomy as well as critical thinking and understanding of the physiology and how they are both dependent upon one another.

Environmental Science

Credit: 1.00

Term: Year

Grade 11-12

PREREQUISITE: Biology, Integrated Science and Algebra I

This course is designed as an introductory study of environmental problems for college-bound students. Students will be studying basic concepts from a variety of science fields such as geology, botany, ecology, chemistry, and biology. Also they will learn how other fields, such as sociology and politics, affect how scientific problems are studied, how possible solutions are found and how these solutions are acted upon. The course stresses learning basic subject facts as well as problem solving through labs and research, papers/essays. General topics covered will be ecosystems, natural resources, pollution, and conservation.

Physics

Credit: 1.00

Term: Year

Grade 12

PREREQUISITE: 87% average or better in Chemistry and Algebra II.

This course along with biology and chemistry provides the foundation for further study of science in college, as well as providing excellent preparation in problem solving for any college-bound student. Physics is a branch of science that involves the study of the physical world: energy, matter, and how they are related. The goal of this course is to help you understand “how things work” in our world. The four major areas of study include mechanics, heat, light, and electricity and magnetism. Class and laboratory activities will both rely heavily on the use of mathematical skills.

Advanced Placement (AP) Biology

Credit: 1:00

Term: Year

Grade 11-12

PREREQUISITE: 87% average in Biology, Integrated Science, Chemistry, and Anatomy & Physiology is highly recommended.

This course is designed to be taken by students after the successful completion of high school biology and one year of high school chemistry is mandatory. Anatomy and Physiology is highly recommended. The AP Biology course is designed to be the equivalent of a two-semester college introductory biology course usually taken by biology majors during their first year. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing field of biology. The core of the course is designed around 8 inquiry based laboratory experiments. Reading will be a major out-of-class responsibility. Students will read a college-level textbook at the rate of at least fifteen to twenty pages a week in addition to research and study pertaining to the eight lab experiments. Required summer reading may precede the start of class.

Students must be able to read on a college level. Taking the A.P. Biology Exam in the spring is mandatory.

NOTE: Advanced work in science should not displace any other part of the student's science curriculum. It is highly desirable that a student have a course in secondary school physics and a college preparatory program in mathematics.

SOCIAL STUDIES DEPARTMENT

Grade 9	Grade 10	Grade 11	Grade 12
World History	American History	Government	Government
	AP U.S. History	Economics & Financial Literacy	Economics & Financial Literacy
		Psychology	Psychology
		Global Issues	Global Issues
		Sociology	Sociology
			Introduction to Entrepreneurship

Economics & Financial Literacy

Credit: .50

Term: Semester

Grades 11-12

This course is to provide students with the awareness of their personal responsibilities, including handling checking accounts, personal budgeting, portfolio management, personal taxes (1040EZ & 1040A) and insurance (homeowners, life and automobile). This course will also build a foundation of understanding of our important and current problems as they relate to an individual's personal finance.

This course is part of the CCHS graduation requirements.

World History: 1770 to Modernity

Credit: 1.00

Term: Year

Grade 9

In an attempt to become a citizen of our global community it is vitally important that the student has a basic knowledge of the world, its people, their customs, and the reasons for their conflicts. In this course, students will explore such topics as the Enlightenment, Industrialization, Imperialism, and conflicts of the 20th Century, including World War I, World War II, and the Cold War. Through this study, students will investigate global societies and their people, geography, economics, governments, and citizen participation.

American History: Reconstruction to Modern Times

Credit: 1.00

Term: Year

Grade 10

This course focuses on the development of the United States beginning with 19th Century Industrialization. Major trends and significant developments in the U.S. will be emphasized, as well as the role of citizens in these developments. Topics covered will include Industrialization; U.S. Imperialism; 20th Century conflicts including World War I, World War II, Vietnam and the Cold War; and political, economic, and social developments in the 20th Century. Through this study, students will investigate U.S. society through its culture, geography, economic patterns, and government, and explore the development of their rights and responsibilities as citizens of the United States.

Advanced Placement (AP) United States History

Credit: 1.00

Term: Year

Grade 10-11

PREREQUISITE: 93% departmental average (JH and HS), 3.25 cumulative average, recommendation of current English teacher, and permission of instructor.

This course is an Advanced Placement course, which will require the students to be an active participant in the major themes of the course. The eight major themes throughout this course will be democracy and citizenship, geography and the environment, multicultural society, everyday life, arts and humanities, economics, technological developments, and global interactions. The A.P. American History student will name, list, describe, discuss, and explain major historical events; as well as, completing cooperative learning activities, problem solving, extensive writing, revising, computer research, group projects, debates, metacognitive reflection (critical thinking), and reading/analyzing at least 6 historical novels.

Extensive summer reading and written expression are required. All students are required to take the final AP US History Exam in May. There is a cost for the exam.

Psychology

Credit: .50

Term: Semester

Grade 11 - 12

Students taking this course examine the history of psychology and the various scientific methods used to study behavior. They study several types of human development, such as, language, intellectual, and moral development. A number of famous theorists on personality are also discussed, such as, Sigmund Freud, B.F. Skinner and Abraham Maslow. Topics such as motivation, emotions, coping with stress, and identifying and treating psychological disturbances are also covered in the scope of this course.

Participation in class discussion is a major requirement for this course.

Government

Credit: .50

Term: Semester

Grade 11-12

By examining the role of the individual in local, state and national government, students will be better prepared to understand the social, economic and political pressures of the modern age. The general structures and functions of government will be studied, as well as the place of political parties, lobbies and pressure groups in the American political system. Personal involvement will be encouraged and considerable stress will be placed on being informed voters, accountability of public officials, and the responsibilities of the voting privilege.

Global Issues and Contemporary Studies

Credit: .50

Term: Semester

Grade 11-12

Recognizing that the world is a global community, this course will identify specific geographic information and will explore political, economic, and cultural events, enabling the students to make and evaluate choices when analyzing world events.

Sociology

Credit: .50

Term: Semester

Grade 10-12

This course examines the discipline of sociology, profiles of influential researchers and major works within the field. The class will inquire on research that views society from a micro and macro level. Students will also study human interaction by questioning how human behavior is shaped by social structures (groups, communities, and organizations), social categories (age, gender, class, race, etc.) and social institutions (politics, religion, education, etc.)

Introduction to Entrepreneurship/Advanced Economic Theory

Credit: .50

Term: Semester

Grade 11-12

This course provides an overall view of the principles and problems of our American economic system with practical application of those principles through classroom activities. Students will organize and capitalize a student company, examine business operations, compete with similar student companies from other school systems. A large portion of this class will be working in a group as a business using the Junior Achievement model. In order for this class to function effectively, it has to have a minimum enrollment of 12 and a maximum of 18.

Course offerings are contingent upon class size and teacher availability.