

KENNEDY CATHOLIC HIGH SCHOOL COURSE CATALOG
2018 – 2019



2120 Shenango Valley Freeway
Hermitage, PA 16148
724.346.5531

<http://kcfs.k12.pa.us/>



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PROGRAM LEVELS

1. Honors & Advanced Placement Courses (HN / AP)

These classes are designed for the academically gifted, high-above-average and very highly motivated student. Admission to honors and advanced placement courses are by invitation based on standardized testing, performance and recommendation of the department. Advanced placement courses have been approved by the national Advanced Placement program and participating students will have the opportunity to qualify for college credit.

2. College Preparatory Courses (CP)

The college preparatory level is for the strong-average to above-average student. It is designed to challenge and prepare the student for admission to and success in college. It is a well-rounded liberal arts education on the secondary level.

3. General Academic Studies Courses (GS)

The general academic courses include all courses not designated as CP, HN, or AP and would include many general elective classes. These courses have a goal to provide the student with basic and fundamental knowledge, information and skills necessary to pursue a career, technical or trade education, or further education at a junior college level.

STUDY HALLS

Study halls are only scheduled for students who receive instructional services through the Intermediate Unit or have a written request from a parent with appropriate reasoning. Study hall is to be used as a time to work on assigned material, study for exams, or conduct research.

TEACHER SIGNATURE

To ensure appropriate academic placement for our students, math courses, AP courses and some electives require a subject teacher's signature for course placement. Course placement will be based on current academic progress and demonstrated mastery of content.

SCHEDULE CHANGE POLICY

Students may change courses during the first five days of school. After the first five days, changes are not permitted. If a schedule change is made due to an extenuating circumstance and the student subsequently withdraws from a scheduled course, it will appear on the student's official transcript with a "W" noting that the student withdrew from the course. The grade will remain visible on the report card and transcript from the time the "W" is placed.

Courses listed in this catalog are subject to change based on student interest or lack of interest. Courses with less than 15 students may not be offered. Course offerings are determined by course requests received the prior spring.

GRADUATION REQUIREMENTS

Minimum credits required per year for advancement to next grade: 7

Minimum credits required for graduation: 28

Theology – 4 credits & 4 years

English – 4 credits & 4 years

Social Studies – 4 credits & 4 years

Science – 4 credits & 4 years

Mathematics – 4 credits & 4 years

Foreign Languages – 2 credits of the same language (3-4 strongly encouraged)

Other Required Courses and Electives – 6 credits

GRADUATING WITH HONORS

Students who display outstanding academic achievement are eligible to graduate with honors from Kennedy Catholic High School. This honor is bestowed upon our hardest-working students who continually strive to perform with excellence.

The rank of MAGNA CUM LAUDE is awarded to students who achieve a cumulative average of 94.5 or better.

The rank of CUM LAUDE is awarded to students who achieve a cumulative average of 88.0 to 94.4.

GRADING

Grades are calculated using a weighted scale that reflects the difficulty of each course. The weighted values of the four curricular categories are:

Advanced Placement (AP): 1.05

Honors (HN): 1.03

College Preparatory (CP): 1.00

General Studies (GS): 1.00

A	100 – 94.50	A+ / A- 98 / 94
B	94.49 – 84.50	B+ / B- 91 / 85
C	84.49 – 71.50	C+ / C- 82 / 72
D	71.49 – 64.50	D+ / D- 71 / 65
F	64.49 and below	

JVLA POLICIES

Our partnership with the Jesuit Virtual Learning Academy allows KCHS students to experience a variety of online learning opportunities which are not offered in our classrooms. These classes are intended as advanced options and require students to work in an independent manner as they explore challenging content. JVLA courses are generally taken as electives.

In order to be considered for enrollment in JVLA courses, students must:

- Possess a minimum cumulative GPA of 3.0 in prior high school coursework.
- Demonstrate discipline, initiative and an ability to work independently to meet deadlines, as assessed by KCHS faculty.
- Demonstrate a functional knowledge of internet communication.

Sophomores, juniors and seniors are eligible to be considered for these classes.

During each academic year, students are permitted a maximum course load of two (2) year-long courses or four (4) semester courses (two classes taken concurrently, each semester). Students will not be permitted to enroll in online courses in subjects already offered in our classrooms.

Some JVLA courses are considered Advanced Placement (AP) offerings; students who pass these courses will still be subject to passing the national AP exam prior to earning potential college credit.

AP courses taken through JVLA receive the standard weight of 1.05 awarded to all AP-level courses at KCHS. JVLA courses not listed as AP are considered College Prep (CP) and in turn receive a weight of 1.00.

JVLA PAYMENT POLICY

Students who enroll in JVLA courses are obligated to pay for the course(s). Books and other materials may need to be purchased by the student.

A drop fee will be sent to students who do not fully complete a scheduled JVLA course. This fee covers the cost of the course and materials needed for the course.

GANNON UNIVERSITY ARTICULATION AGREEMENT WITH KENNEDY CATHOLIC HIGH SCHOOL



Kennedy Catholic High School

Students must complete the prescribed Articulation-Evaluation Credits

- Students must complete 4 full years (4 credits) of honors or Advanced Placement courses as identified in Attachment A.
- All courses must have been completed at Kennedy Catholic High School with a grade of B or better
- Articulation credits are not able to be transferred to other institutions.
- Articulation credits will not be used in determining a student's Gannon grade point average.
- Some articulation credits may be used as elective credits and may not be used to fulfill program requirements
- Kennedy Catholic will determine if students are required to take the AP examination for courses approved for articulation credit.
- Students cannot use AP examinations to add articulation credits to the agreement
- The articulation agreement will be reviewed annually by both Gannon University and Kennedy Catholic High School and any curricular changes will need to be approved.

Dual Enrollment Credits

- Grades below a C in a dual enrollment course will not be accepted.
- Each transcript will be evaluated individually by the assistant for student records and the appropriate chair/program director.
- Dual enrollment credits are eligible to be transferred to other institutions.
- Students who have completed the required 24 credits will not be required to take the Gannon First Year Seminar.

ARTICULATION-EVALUATION OF CREDITS

Kennedy Catholic

Name: _____ Major: _____ Gannon ID: _____

ENGLISH

- ____ HN English 9
9th grade (1 year, 1 credit)
- ____ HN English 10
10th grade (1 year, 1 credit)
- ____ HN English 11
10th or 11th grade (1 year, 1 credit)
- ____ HN English 12
11th or 12th grade (1 year, 1 credit)
- YES NO LENG 111 College Composition

MATHEMATICS

- ____ HN Geom.
9th or 10th grade (1 year, 1 credit)
- ____ HN Alg. II
9th or 10th grade (1 year, 1 credit)
- ____ HN Precalc
11th grade (1 year, 1 credit)
- ____ HN Calc or HN Stats
12th grade (1 year, 1 credit)

Math 140

- ____ HN Geom
9th or 10th grade (1 year, 1 credit)
- ____ HN Alg. II
9th or 10th grade (1 year, 1 credit)
- ____ HN Precalc
11th grade (1 year, 1 credit)
- ____ AP Calc
12th grade (1 year, 1 credit)
- YES NO MATH 135 Pre Calculus
- YES NO MATH 140 Calculus I

SOCIAL STUDIES

- ____ World History
9th grade (1 year, 1 credit)
- ____ American History I
10th grade (1 year, 1 credit)
- ____ American History II
11th grade (1 year, 1 credit)
- ____ Honors Western Traditions or AP US History
11th or 12th grade (1 year, 1 credit)
- YES NO LHST 111 History without Borders

SCIENCE

- ____ HN Biology
9th grade (1 year, 1 credit)
- ____ HN Chemistry
10th grade (1 year, 1 credit)
- ____ HN Physics I
11th grade (1 year, 1 credit)
- ____ AP Chemistry
11th or 12th grade (1 year, 1 credit)
- ____ HN Anatomy
11th or 12th grade (1 year, 1 credit)
- ____ AP Biology
10th or 11th grade (1 year, 1 credit)
- ____ AP Physics II
11th or 12th grade (1 year, 1 credit)

YES NO BIOL 139

FOREIGN LANGUAGES

SPANISH

- ____ CP Spanish I
9th, 10th, 11th, or 12th grade (1 year, 1 credit)
- ____ CP Spanish II
9th, 10th, 11th, or 12th grade (1 year, 1 credit)
- ____ HN Spanish III
10th, 11th, or 12th grade (1 year, 1 credit)
- ____ HN Spanish IV
10th, 11th, or 12th grade (1 year, 1 credit)
- YES NO SPAN 111 Introductory Spanish

FRENCH

- ____ CP French I
9th, 10th, 11th, or 12th grade (1 year, 1 credit)
- ____ CP French II
9th, 10th, 11th, or 12th grade (1 year, 1 credit)
- ____ HN French III
9th, 10th, 11th or 12th grade (1 year, 1 credit)
- ____ HN French IV
9th, 10th, 11th, or 12th grade (1 year, 1 credit)
- YES NO FREN 111 Introductory French

KENNEDY CATHOLIC HIGH SCHOOL

Core Curriculum 2018-2019

	Freshman	Sophomore	Junior	Senior
<i>Theology</i>	Theology 9	Theology 10	Theology 11	Theology 12 HN Western Traditions
<i>English</i>	CP English 9 HN English 9 ESL	CP English 10 HN English 10 ESL	CP English 11 HN English 11 AP English 11 ESL	CP English 12 HN English 12 AP English 12 ESL
<i>Social Studies</i>	CP World History	CP American History I	CP American History II AP U.S. History	CP Government HN Western Traditions AP Psychology
<i>Science</i>	CP Biology HN Biology	CP Chemistry HN Chemistry	CP Environmental Science CP Forensics HN Physics I HN Anatomy/Physiology AP Biology AP Chemistry	CP Environmental Science CP Forensics HN Anatomy/Physiology AP Biology AP Physics II AP Chemistry
<i>Mathematics</i>	CP Algebra I CP Algebra II HN Algebra II Integrated Math I	CP Algebra II HN Algebra II CP Geometry HN Geometry Integrated Math II	CP Geometry CP Algebra II HN Algebra II CP Algebra III HN Precalculus Integrated Math III	CP Algebra III HN Precalculus HN Statistics HN Calculus AP Calculus AB Integrated Math IV Consumer Math
<i>Language</i>	CP French I CP Spanish I	CP French II CP Spanish II	HN French III HN Spanish III	HN French IV HN Latin IV HN Spanish IV
<i>Electives</i>	Freshman Phys. Ed. Freshman Cycle			Senior Phys. Ed. Humanities

Electives

Freshman	Sophomore	Junior	Senior
Broadcast Journalism	Broadcast Journalism	Broadcast Journalism	Broadcast Journalism
Chorus	Chorus	Chorus	Chorus
Concert Band	Concert Band	Concert Band	Concert Band
Drama	Drama	Drama	Drama
Engineering I	Engineering I	Engineering I	Engineering I
General Business <i>Business Law</i> <i>Sales and Marketing</i>	General Business <i>Business Law</i> <i>Sales and Marketing</i>	General Business <i>Business Law</i> <i>Sales and Marketing</i>	General Business <i>Business Law</i> <i>Sales and Marketing</i>
Multimedia Art	Multimedia Art	Multimedia Art	Multimedia Art
Publications	Publications	Psychology	Psychology
World Religions	World Religions	Publications	Publications
		SAT/ACT Preparation	World Religions
		World Religions	
*Sales and Marketing & Business Law will not be offered 2018-19			

JVLA

	Sophomore	Junior	Senior
<i>Full Year</i>	Arabic Level I Chinese Mandarin Level I Italian Level I AP Statistics	<i>All Sophomore, plus:</i> AP Art History AP Calculus BC AP Computer Science AP Environmental Science AP Human Geography AP Music Theory	<i>All Soph./Junior</i>
<i>Fall</i>	C++ Programming Digital Photography AP Microeconomics Principles of Engineering	Bioethics Multimedia Authorship	
<i>Spring</i>	AP Macroeconomics	Astronomy: An Introduction	

ENGLISH DEPARTMENT

CP English 9

Course Number: ENG100

Level: Freshman

Credits: 1 **Weight:** 1.00

Prerequisites: 8th-grade English and 8th-grade exam scores

Textbook: *Understanding English Literature, Arrangements in Literature, Vocabulary Workshop Level D*, novels

Instructional Material: Handouts, videos, textbooks, novels

Course Rationale and Description: Students will be instructed in grammar, literature, and writing.

Grammar – sentence elements, punctuation mechanics and usage, capitalization, diagramming

Literature – introduction to literary genres including Shakespeare, novels

Writing – sentence structure, development of topic sentence and paragraphs, essay (descriptive, creative, and expository), research paper, MLA format

Course Topics:

- Short stories
- Poetry
- Drama
- Nonfiction
- Novels
- Shakespeare
- Vocabulary

Instructional Activities: Lectures, projects, oral presentations, group work, essays, reading, discussions

HN English 9

Course Number: ENG101

Level: Freshman

Credits: 1 **Weight:** 1.03

Prerequisites: 8th-grade English and 8th-grade exam scores

Textbook: *Understanding English Literature, Arrangements in Literature, Vocabulary Workshop Level D*, novels

Instructional Material: Textbooks, novels, handouts, videos

Course Rationale and Description: Students will be instructed in grammar, literature, and writing.

Grammar – sentence elements, punctuation mechanics and usage, capitalization, diagramming

Literature – introduction to literary genres including Shakespeare, novels

Writing – development of topic sentences and paragraphs, essays (descriptive, creative, and expository), research paper, MLA format

Course Topics:

- Short stories
- Poetry
- Drama
- Nonfiction
- Novels
- Shakespeare
- Vocabulary

Instructional Activities: Lectures, projects, oral presentations, group work, essays, reading, discussions

CP English 10

Course Number: ENG200

Level: Sophomore

Credits: 1 **Weight:** 1.00

Prerequisites: English 9

Textbook: *Appreciating Literature, Vocabulary Workshop Level E*

Instructional Material: Textbooks, study guides, worksheets, videos

Course Rationale and Description: This course is designed to upgrade and supplement 9th-grade study of genres: short stories, nonfiction, drama (including one Shakespeare play), novels and poetry. Vocabulary is studied in 20-word units with emphasis on vocabulary for SAT and ACT (meanings, spelling, and usage). Students practice writing in various forms using correct format, spelling, punctuation and grammar. Worksheets and interactive lessons re-enforce grammar and reading comprehension. A research paper (MLA format) and oral presentations are required.

Course Topics:

- Literature – short stories, nonfiction, drama (Julius Caesar), novels, poetry
- Writing – essays (descriptive, persuasive, expository, etc.), research paper
- Grammar – emphasis on correct usage, speaking, and writing
- Vocabulary
- Research methods
- Speech

Instructional Activities: Discussions (class and small-group), peer learning, videos, word puzzles, oral presentations, guest speakers

HN English 10

Course Number: ENG201

Level: Sophomore

Credits: 1 **Weight:** 1.03

Prerequisites: English 9

Textbook: *Appreciating Literature, Vocabulary Workshop Level E*

Instructional Material: Textbooks, study guides, worksheets, videos

Course Rationale and Description: This course is designed to upgrade and supplement 9th-grade study of genres: short stories, nonfiction, drama (including one Shakespeare play), novels and poetry. Honors English challenges students beyond the usual course of study, requiring in-depth interpretive reading, additional and more lengthy reading selections, a three-unit vocabulary grouping of 20 words each, and additional writing assignments, projects, and oral presentations. The Honors student is expected to write with correct grammar, spelling and punctuation and to write a more detailed research paper.

Course Topics:

- Literature – short stories, nonfiction, drama (Julius Caesar), novels, poetry
- Writing – essays (descriptive, persuasive, expository, etc.), research paper
- Grammar – emphasis on correct usage, speaking, and writing
- Vocabulary
- Research methods
- Speech

Instructional Activities: Discussions (class and small-group), peer learning and editing, videos, word puzzles, oral presentations, guest speakers

CP English 11

Course Number: ENG300

Level: Junior

Credits: 1 **Weight:** 1.00

Prerequisites: English 10

Textbook: *American Literature, Vocabulary Workshop Level F*

Instructional Material: Textbook, study guides, videos, word puzzles, novels

Course Rationale and Description: This course is designed to give students an understanding of the chronological development of American Literature from the Native Americans to modern times.

Prominent American authors and significant documents of American history are studied for understanding and interpretation. Career shadowing is required for primary sources for paper, which is written in MLA format. Periodic writing assignments require correct grammar, spelling, and format. Independent reading of novels requires interpretive skills. Fifteen vocabulary units (20 words per unit)

Course Topics:

- Literature – chronological selection of American writers and documents
- Writing – essays (descriptive, expository, etc.), research paper on a career
- Grammar – review of correct usage for speaking and writing
- Vocabulary
- Research methods
- Careers
- Speech

Instructional Activities: Discussion (class and small-group), videos, oral presentations, guest speakers, directed research, career shadowing, word puzzles

HN English I I

Course Number: ENG301

Level: Junior

Credits: 1 **Weight:** 1.03

Prerequisites: English 10

Textbook: *American Literature, Vocabulary Workshop Level F*

Instructional Material: Textbook, novels, study guides, worksheets, videos

Course Rationale and Description: This class is more rigorous than the CP level, requiring more in-depth reading and complex writing assignments. Students are expected to understand the development of American Literature from the writings of the Native Americans to writings of modern authors. Students are expected to understand and interpret complex texts and write competently in classes across the curriculum. Students will write in a variety of forms (expository, persuasive, etc.) with correct grammar, spelling, punctuation and appropriate vocabulary. Students are required to do research (including career shadowing) and write a research paper in MLA format.

Course Topics:

- Literature – chronological selection of American writers and documents
- Writing – essays (persuasive, narrative, etc.), research paper
- Grammar – review of correct usage for speaking and writing
- Vocabulary – 15 units of 20 words each, words in context, literary terms
- Research Methods – shadowing, note-taking, documenting sources, expository writing, proof-reading, MLA format

Instructional Activities: Discussion (class and small-group), peer learning and editing, lectures, projects, videos, oral presentations, career shadowing, directed research

AP English I I

Course Number: ENG500

Level: Junior

Credits: 1 **Weight:** 1.05

Prerequisites: Honors English 10 or special permission

Textbook: *American Literature, Vocabulary Workshop Level F*

Instructional Material: Textbook, novels, study guides, worksheets, videos

Course Rationale and Description: The AP class is more demanding and rigorous than Honors; its controlling purpose is to enable students to read complex texts with understanding and to write effectively and competently in all courses across the curriculum, as well as their personal and professional

lives. Students are required to write regularly in a variety of forms (descriptive, expository, etc.) with correct grammar, spelling, punctuation and mature vocabulary. Students will write a research paper on a chosen career using MLA format. Teacher signature is required for placement in this course.

Course Topics:

- Literature – chronological selection of American writers and documents
- Writing – essays (persuasive, narrative, etc.), research paper on a career
- Grammar – review of correct usage for speaking and writing
- Vocabulary
- Research Methods
- Speech
- Careers

Instructional Activities: Discussions (class and small-group), peer learning and editing, lectures, projects, videos, oral presentations, guest speakers, career shadowing, directed research

Method of Evaluation, Assessment, and Grading: Announced tests, unannounced quizzes, writing assignments, class participation, oral presentations

CP English 12

Course Number: ENG400

Level: Senior

Credits: 1 **Weight:** 1.00

Prerequisites: CP English 11

Textbook: *English Literature with World Masterpieces, Vocabulary Workshop Level G*

Instructional Material: Textbook, novels, handout, videos

Course Rationale and Description: Students will be instructed in grammar, literature, and writing.

Grammar – mechanics reviewed in conjunction with compositions

Literature – study of the development of British literature, along with excerpts from French, German, Italian and Spanish literature, four novels and two Shakespeare plays

Writing – research paper, MLA format and college/SAT writing

Course Topics:

- British and World literature – epics, plays, short stories, poetry, sonnets, essays and novels

Instructional Activities: Lectures, group work, discussions, projects, oral presentations, essays, reading

HN English 12

Course Number: ENG401

Level: Senior

Credits: 1 **Weight:** 1.03

Prerequisites: AP or HN English 11

Textbook: *English Literature with World Masterpieces, Vocabulary Workshop Level H*

Instructional Material: Textbook, novels, handout, videos

Course Rationale and Description: Students will be instructed in grammar, literature, and writing.

Grammar – elements of style rather than basic elements taught in conjunction with writing

Literature – literary works of every genre read and analyzed with emphasis on literary criticism; British and World literature

Writing – themes about literature concerned with the analytical process in literary interpretation, argumentative research paper, MLA format, writing journals for weekly directed essays

Course Topics:

- British and World literature – epics, plays, short stories, poetry, sonnets, essays and nine novels

Instructional Activities: Lectures, group work, projects, oral presentations, essays, reading, class discussion

AP English 12

Course Number: ENG501

Level: Senior

Credits: 1 **Weight:** 1.05

Prerequisites: AP English 11

Textbook: *English Literature with World Masterpieces, The Norton Anthology of World Masterpieces, Vocabulary Workshop Level H*

Instructional Material: Textbook, novels, handout, videos

Course Rationale and Description: Students will be instructed in grammar, literature, and writing. Teacher signature is required for placement in this course.

Grammar – elements of style rather than basic elements taught in conjunction with writing

Literature – literary works of every genre read and analyzed with emphasis on literary criticism; British and World literature

Writing – themes about literature concerned with the analytical process in literary interpretation, argumentative research paper, MLA format, writing journals for weekly directed essays

Course Topics:

- British and World literature – epics, plays, short stories, poetry, sonnets, essays and 12 novels

Instructional Activities: Lectures, group work, projects, oral presentations, essays, reading, class discussion

English as a Second Language

Course Number: ESL100

Level: Freshmen – Senior

Credits: 1 **Weight:** 1.00

Prerequisites: Placement test for those whose native language is not English

Textbook: *English Grammar for ESL Learners – McGraw Hill*

Instructional Material: textbook, handouts, videos, online resources

Course Rationale and Description: This course is designed for students who are non-fluent English speakers who are in need of basic skills in oral communication, reading comprehension, grammar, and writing skills. The purpose of this course is to enable these students to enter a CP English class the following year.

Teaching Methods: Lectures, oral presentations, tests, quizzes, discussions, projects, group work

MATHEMATICS DEPARTMENT

Integrated Math I

Course Number: ALG101

Level: Freshmen

Credits: 1 **Weight:** 1.00

Prerequisites: Pre-Algebra

Textbook: *Basic Algebra*

Instructional Material: Textbook, worksheet, reviews, supplemental textbooks, calculator, manipulatives

Course Rationale and Description: Integrated Math I develops more concrete mathematical knowledge and applies this knowledge to basic algebra and geometry concepts. It provides a mathematical foundation needed for future success in high school math courses.

Course Topics:

- Real numbers
- Basic algebra
- Solve equations
- Graphing linear equations
- Properties of exponents
- Polynomials
- Basic figures in geometry
- Angles & angle pairs
- Classifying triangles

Teaching Methods and Approaches: Lectures, group activities, differentiation, review sheets, board work, drawing and measuring figures

CP Algebra I

Course Number: ALG200

Level: Freshman

Credits: 1 **Weight:** 1.00

Prerequisites: None

Textbook: *Algebra I: Common Core*

Instructional Material: Textbook, worksheets, reviews, supplemental texts

Course Rationale and Description: This course lays the foundation for all higher math studies. It prepares students to solve problems in Science and Physics. Vocabulary, equations and problem-solving are areas of focus. The course employs a step-by-step approach that enables students to gain the basic knowledge needed to transition to higher-level math classes.

Course Topics:

- Intro to Algebra
- Real numbers
- Solving equations
- Polynomials
- Factoring
- Fractions and problems
- Linear Equations
- Graphing Lines
- Systems of linear equations
- Inequalities
- Rational and irrational numbers
- Functions

Instructional Activities: Lecture, vocabulary, group work, review sheets, board work, projects

CP Geometry

Course Number: GEO300

Level: Sophomore or Junior

Credits: 1 **Weight:** 1.00

Prerequisites: CP Algebra I and CP Algebra II

Textbook: *Geometry*

Instructional Material: Textbook, worksheets, reviews, supplemental texts

Course Rationale and Description: While increasing knowledge in a different area of math, this course helps train the mind in logical thinking. Every statement can be based on actual, known facts.

Course Topics:

- Basic figures of geometry
- Angles and perpendicular lines
- Parallel planes and lines
- Congruent triangles
- Quadrilaterals
- Right triangles

Instructional Activities: Lecture, vocabulary, group work, review sheets, board work, projects, student work, drawing and measuring figures

HN Geometry

Course Number: GEO400

Level: Sophomore or Junior

Credits: 1 **Weight:** 1.03

Prerequisites: HN Algebra I and HN Algebra II

Textbook: *Geometry*

Instructional Material: Textbook, worksheets, board

Course Rationale and Description: This course is a study of the basic elements of plane geometry, including lines, angles, triangles, circles, inductive and deductive reasoning. Proof completion enhances students' ability to think logically.

Course Topics:

- Basic figures of geometry
- Angles and perpendicular lines
- Parallel planes and lines
- Congruent triangles
- Quadrilaterals
- Right triangles
- Circles

Instructional Activities: Teacher-led explanation of topic, in-class discussion of homework problems, demonstrations, class work

Integrated Math II

Course Number: ALG102

Level: Sophomore

Credits: 1 **Weight:** 1.00

Prerequisites: Pre-Algebra, Integrated Math I

Textbook: *Basic Algebra/ Geometry book*

Instructional Material: Textbook, worksheets, reviews, supplemental texts, calculator, manipulatives

Course Rationale and Description: Integrated Math II is an enhancement course in secondary mathematics. It provides the foundation in algebra and geometry needed for future success in high school math courses.

Course Topics:

- Real Numbers
- Fractions & problem solving
- Solve equation & inequalities
- Polynomial operations

- Graphing linear equations
- Basic figures in geometry
- Angles and perpendicular lines
- Classifying triangle
- Right triangle

Teaching Methods and Approaches: Lectures, vocabulary, group work, review sheets, board work, drawing and measuring figures.

Integrated Math III

Course Number: ALG103

Level: Junior

Credits: 1 **Weight:** 1.00

Prerequisites: Integrated Math II

Textbook: *Business Mathematics*

Instructional Material: Handouts, videos, projects, etc.

Course Rationale and Description: This course will study the application of mathematics as a tool in personal finances. Managing finances is part of our everyday life and it is important to master the mathematical skills involved.

Course Topics:

- Percents
- Gross Pay
- Taxes and Net Pay
- Basic figures in geometry
- Checking Accounts
- Everyday money use and making change

Teaching Methods and Approaches: Lectures, group work, discussions, projects, videos

HN Basic Applied Statistics

Course Number: MTH400

Level: Junior or Senior

Credits: 1 **Weight:** 1.05

Prerequisites: CP Algebra III, HN Pre-Calculus, or HN/AP Calculus

Textbook: *The Practice of Statistics*

Instructional Material: Lecture, videos, projects

Course Rationale and Description: This course teaches methods of descriptive and inferential statistics. Topics include data collection and description, hypothesis testing, correlation and regression, the analysis of variance, and contingency tables (chi square). Students will learn how to use a statistical computer package, MINITAB. Students who take this course have the opportunity to earn college credit through the University of Pittsburgh. Students must register through the course teacher for Pitt credit at the beginning of the school year the course is taken.

Course Topics:

- Descriptive Statistics
- Association and Regression
- Causation and Evidence
- Probability
- Distribution of sample proportion and mean from random samples
- Confidence Intervals
- Tests of Hypotheses
- T-tests

Instructional Activities: Lecture, videos, projects

CP Algebra II

Course Number: ALG300

Level: Freshman or Sophomore

Credits: 1 **Weight:** 1.00

Prerequisites: CP Algebra I

Textbook: *Algebra and Trigonometry: Structure and Method*

Instructional Material: Textbook, handouts, worksheets, ruler, colored paper, dot paper

Course Rationale and Description: This course is designed to build on algebraic and geometric concepts. It develops advanced algebra skills such as inequalities, graphing linear equations, systems of equations, polynomials, quadratics and rational and irrational expressions. Course content is important for students' success on both the ACT and SAT.

Course Topics:

- Absolute value Eq. & Ineq.
- Graphing Lines
- Basic algebra concepts
- Solving inequalities
- Linear equations and functions
- Solving systems of equations
- Products of polynomials
- Factors of polynomials
- Rational expressions
- Irrational numbers

Instructional Activities: Worksheets, textbook assignments, writing in math, factoring project, foldables and organizers, true/false sorts, review trails, gallery walks, reinforcing math skills through games

HN Algebra II

Course Number: ALG301

Level: Freshman or Junior

Credits: 1 **Weight:** 1.03

Prerequisites: Grade of A or B in HN Algebra I

Textbook: *Algebra and Trigonometry: Structure and Method – Book 2*

Instructional Material: Board, dry-erase board, calculator

Course Rationale and Description: Problem-solving is emphasized throughout this course.

Applications are presented early with interesting and varied word problems. Reasoning skills such as analyzing information, making conjectures and giving convincing arguments are developed. The course is designed to make Algebra accessible as a tool to a wide range of students, without sacrificing complete content and challenge for competent students.

Course Topics:

- Systems of Equations & Inequalities
- Absolute Value Eq. & Ineq.
- Quadratics
- Graphing of lines and parabolas
- Polynomials
- Factoring
- Radical expressions
- Complex numbers
- Functions

Instructional Activities: Lecture, working examples on the board, students working at the board

CP Algebra III

Course Number: ATR303

Level: Junior or Senior

Credits: 1 **Weight:** 1.00

Prerequisites: CP Algebra I, CP Algebra II, CP Geometry

Textbook: *Algebra II*

Instructional Material: Board, dry-erase board, calculator, graphic organizers, SAT Question of the Day, internet

Course Rationale and Description: A thorough review of topics covered in Algebra II with an emphasis on fundamental skills and repetition and building confidence in students' math skills. All topics covered in a standard Algebra II course are presented and built upon. The second semester is an introduction to base definitions and applications of trigonometry. The right triangle will be discussed and students will solve trigonometric equations, graph trig functions, and work with fundamental identities.

Course Topics:

- Algebra Review
- Radical Expressions
- Matrices
- Right Triangle Trig
- Graphing lines and parabolas
- Quadratics
- Factoring
- Polynomials
- Rational expressions
- Complex numbers

Instructional Activities: Lecture, board work, students working on board

HN Precalculus

Course Number: ANL300

Level: Junior or Senior

Credits: 1 **Weight:** 1.03

Prerequisites: Grade of A or B in HN Geometry and HN Algebra II

Textbook: *Trigonometry: Revised Edition, College Algebra: Fifth Edition*

Instructional Material: Board, dry-erase board, calculator

Course Rationale and Description: In-depth use of algebra concepts applied to utilizing trigonometric functions and their properties to find sides, angles, areas and heights of triangles. Also, Applying these concepts to real-life situations. Concepts such as logarithms, exponentials and limits lead into Calculus.

Course Topics:

- Angle measures (degrees/radians)
- Trigonometric applications
- Logarithms
- Graphing trigonometric functions
- Function Review
- Exponential functions
- Rational Expressions
- Trigonometric identities

Instructional Activities: Lecture, working examples on the board

HN Calculus

Course Number: CLC400

Level: Senior

Credits: 1 **Weight:** 1.03

Prerequisites: HN Pre-Calculus

Textbook: *Calculus: Sixth Edition*

Instructional Material: Board, dry-erase board, calculator

Course Rationale and Description: This course takes a step-by-step approach to calculus, beginning with a review of the fundamental concepts of college algebra, extending through differential and integral calculus. The course will cover the basics of calculus and emphasize functions, logarithms, limits and derivatives.

Course Topics:

- Limits
- Integration
- Fundamental Theorem of Calculus
- Continuity
- Logarithm & Exponential Differentiation
- Differentiation

- Exponential functions

Instructional Activities: Lecture, working examples on the board

AP Calculus AB

Course Number: CLC500

Level: Senior

Credits: 1 **Weight:** 1.05

Prerequisites: Grade of A or B in HN Pre-Calculus

Textbook: *Calculus: Sixth Edition*

Instructional Material: Board, dry-erase board, calculator

Course Rationale and Description: This course takes a step-by-step approach to calculus, beginning with a review of the fundamental concepts of college algebra, extending through differential and integral calculus. The course utilizes an extensive number of illustrated problems involving applications to real-life situations. This course is faster-paced and more in-depth than HN Calculus. Students will be eligible to take the AP Calculus exam. Teacher signature is required for placement in this course.

Course Topics:

- Limits
- Continuity
- Differentiation
- Maxima/Minima/Optimization
- Logarithms and Exponential Differentiation
- Integration and fundamental theorem of calculus

Instructional Activities: Lecture, working examples on the board, students working at the board, utilization of graphing calculator

GS Consumer Math

Course Number: CON100

Level: Senior

Credits: 1 **Weight:** 1.00

Prerequisites: None

Textbook: *Business Mathematics*

Instructional Material: Handouts, videos, projects, etc.

Course Rationale and Description: This course will study the application of mathematics as a tool in personal and business finances. Managing finances is part of our everyday life and, therefore, it is important to master the mathematical skills involved. This course will cover real-world applications such as using checking and savings accounts, credit cards, credit score, insurance, IRAs, mortgages, taxes, etc. Students will also calculate and understand ways to obtain income, set up and understand how to live within a personal budget plan.

Course Topics:

- Percents
- Home and car buying
- Budgeting
- Credit report
- Investments
- Taxes
- Insurance
- Gross and net income
- Recordkeeping
- Checking/Savings accounts
- Credit card

Instructional Activities: Lectures, group work, discussions, projects, videos

SCIENCE DEPARTMENT

CP Biology

Course Number: BIO100

Level: Freshman

Credits: 1 **Weight:** 1.00

Prerequisites: None

Textbook: *Prentice-Hall Biology*

Instructional Material: Textbook and comprehension worksheets, chalkboard, PowerPoint/lecture, visual aids (diagrams, models, videos), demonstrations, supplemental materials, homework assignments

Course Rationale and Description: The course covers various basic principles to build a solid foundation in biology. Students explore a variety of topics, including general science concepts, biological molecules, cells and metabolism, genetics and heredity, and ecological principles, accompanied by laboratory techniques.

Course Topics:

- Fundamental biological principles
- Chemistry of biology
- Biological molecules
- Cell structures and processes
- Genetics
- Ecological principles
- Evolution
- Microorganisms
- Animal kingdom
- Laboratory dissection

Instructional Activities: Lecture, discussion, PowerPoint, reading comprehension and supporting assignments, videos, diagrams, models, demonstrations, laboratory work

HN Biology

Course Number: BIO101

Level: Freshman

Credits: 1 **Weight:** 1.03

Prerequisites: B or higher in 8th-grade science or teacher approval

Textbook: *Biology: The Dynamics of Life*

Instructional Material: Textbook, PowerPoint, videos, laboratory equipment, iPads, Chromebooks, worksheets, chalkboard, hands-on activities

Course Rationale and Description: This introductory biology course covers material more quickly than the CP course and fosters a more in-depth look at topics covered. Students explore general science concepts, biological molecules, cells and metabolism, genetics and heredity, and ecological principles, accompanied by laboratory techniques.

Course Topics:

- Microscopes
- Ecology
- Life of a cell
- Genetics
- Evolution
- Microorganisms
- Animal kingdom
- Laboratory dissection

Instructional Activities: Discussion, reading comprehension, lectures, PowerPoint, group projects, problem-solving, written exercises, worksheets, activities, labs, scientific literacy, technology skills

CP Chemistry

Course Number: CHM200

Level: Sophomore

Credits: 1 **Weight:** 1.00

Prerequisites: Biology

Textbook: *Introductory Chemistry: A Foundation (2nd Edition)*

Instructional Material: Textbook, projector, PowerPoint, lab materials, computers, Vernier sensors, Logger Pro Data Collection software, iPads, worksheets, internet

Course Rationale and Description: This course will study the structures of atoms and molecules, the interaction between them, and their resulting chemical reactions. Chemical and physical properties will be investigated, as well as how these properties are measured and can be predicted by a compounds structure. The role of chemistry as the central science and its impact in our daily lives will be discussed.

Course Topics:

- Scientific method
- Scientific notation
- Units
- Significant figures
- Dimensional analysis
- Matter and energy
- Physical / chemical properties and change
- Elements and compounds
- Formulas of compounds
- Natural states of the elements
- Chemical reactions
- Chemical quantities
- Chemical bonding
- Lab safety and equipment

Instructional Activities: Discussion, lab experiments

HN Chemistry

Course Number: CHM201

Level: Sophomore

Credits: 1 **Weight:** 1.03

Prerequisites: Biology

Textbook: *Chemistry (8th Edition)*

Instructional Material: Textbook, PowerPoint, projector, videos, laboratory equipment, iPads, Chromebooks, worksheets, chalkboard, hands-on activities

Course Rationale and Description: This course will study the structures of atoms and molecules, the interaction between them, and their resulting chemical reactions. Chemical and physical properties will be investigated, as well as how these properties are measured and can be predicted by a compounds structure. The role of chemistry as the central science and its impact in our daily lives will be discussed.

Course Topics:

- Scientific method
- Scientific notation
- Units
- Significant figures
- Dimensional analysis
- Matter and energy
- Physical / chemical properties and change
- Elements and compounds
- Formulas of compounds
- Natural states of the elements
- Chemical reactions
- Chemical quantities
- Chemical bonding
- Lab safety and equipment

Instructional Activities: Lecture, PowerPoint, reading comprehension, discussion, group projects, problem-solving, written exercises, worksheets, activities, labs, scientific literacy, technology skills

CP Environmental Science

Course Number: ENS100

Level: Junior

Credits: 1 **Weight:** 1.00

Prerequisites: Biology & Chemistry

Course Rationale and Description: This course introduces students to the basic principles of environmental studies. Students in this course will explore various topics including the earth in space, the living planet, nature's cycles, adapting to the environment, as well as ecosystems and biomes. Through this course, students will build a foundation of the concepts and techniques used to understand the environment in which we live.

Course Topics:

- Planet earth
- The living planet
- Cycles of nature
- Environmental adaptation
- Ecosystems
- Biomes

HN Physics I

Course Number: PHY300

Level: Junior

Credits: 1 **Weight:** 1.03

Prerequisites: HN Chemistry or teacher approval

Textbook: *College Physics (6th Edition)*

Instructional Material: Textbook, projector, PowerPoint, lab materials, computers, Vernier sensors, Logger Pro Data Collection software, iPads, Chromebooks, worksheets, internet

Course Rationale and Description: This course studies the fundamental laws of nature on which all science is based. It is designed to enable students to appreciate the role of physics in today's society and technology. Physics is the study of matter and its motion through space and time, along with related concepts such as energy and force. Introductory course covers classical mechanics.

Course Topics:

- Kinematics
- Vectors and two-dimensional motion
- Laws of motion
- Energy
- Rotational motion and the law of gravity
- Momentum and collisions
- Rotational equilibrium and dynamics

Instructional Activities: Discussion and lab experiments

AP Physics II

Course Number: PHY500

Level: Senior

Credits: 1.5 **Weight:** 1.05

Prerequisites: HN Physics I

Textbook: *Physics (7th Edition)*

Instructional Material: Textbook, projector, PowerPoint, lab materials, computers, Vernier sensors, Logger Pro Data Collection software, iPads, Chromebooks, worksheets, internet

Course Rationale and Description: This course is equivalent to most college-level introductory physics courses. It focuses on the following topics: fluid statics and dynamics, thermodynamics, PV diagrams and probability, electrostatics, electrical circuits with capacitors, magnetic fields, electromagnetism, physical and geometric optics, and other topics in modern physics. Teacher signature is required for placement in this course.

Course Topics:

- Electrostatics
- Current
- Resistance
- Circuits
- Electromagnetism and induction
- Light
- Geometric and physical waves
- Optics
- Fluids
- Thermal physics
- Quantum physics
- Nuclear physics

Instructional Activities: Discussion and lab experiments

AP Biology

Course Number: BIO500

Level: Junior or Senior

Credits: 1.5 **Weight:** 1.05

Prerequisites: HN Biology, HN Chemistry and teacher teaching subject's approval

Requirements: The student must take the College Board AP Biology Exam in May. The cost is approximately \$100.

Textbook: Reece, Jane, Lisa Urry, Michael Cain, Steven Wasserman, Peter Minorsky, and Robert Jackson. *Campbell Biology, AP 10th Edition, 2014.*

Instructional Material: Textbook, charts, specimens, videos, models, labs, microscopes, laboratory equipment borrowed from Westminster College.

Course Rationale and Description: AP Biology is designed to be equivalent to a two-semester college introductory biology course and students are expected to work accordingly. This course differs significantly from traditional high school biology in text content, depth of material, lab work and effort required to achieve mastery. Teacher signature is required for placement in this course.

Course Topics:

- Origin of life
- Biology of the cell
- Mendelian genetics
- Cellular respiration
- Photosynthesis
- Ecology and behavior
- Animal form and function
- Diversity of life on earth
- Catholic values

Instructional Activities: Lecture, discussion of recent biological advancements, laboratory time, formal lab reports, note-taking, videos, outline

AP Chemistry

Course Number: CHM500

Level: Junior or Senior

Credits: 1.5 **Weight:** 1.05

Prerequisites: HN Biology, HN Chemistry and teacher approval (Mrs. Epstein's), and a completed course of Algebra II with no less than a B grade.

Requirements: The student must take the College Board AP Chemistry Exam in May. The cost is approximately \$100.

Textbook: Kotz, John, Paul Treichel, and John Townsend. *Chemistry & Chemical Reactivity, AP 8th Edition, 2012.*

Instructional Material: Textbook, charts, specimens, videos, models, labs, laboratory equipment also borrowed from West Minster College.

Course Rationale and Description: AP Chemistry is designed to be the equivalent of a two-semester college introductory chemistry course and students are expected to plan accordingly. This course differs significantly from traditional high school biology in text content depth material, lab work, and effort required to achieve mastery. The teaching teacher's signature is required for placement in the course.

Course Topics:

- Gases
- Chemical bonding
- Acids and bases
- Rates of reaction
- Thermochemistry
- Electron configuration
- Stoichiometry
- Matter/measurements

Instructional Activities: Lecture, discussion of recent biological advancements, laboratory time, formal lab reports, videos, outlining.

HN Human Anatomy/Physiology

Course Number: ANA300

Level: Junior or Senior

Credits: 1 **Weight:** 1.03

Prerequisites: HN Biology, HN Chemistry, and teacher teaching subject approval.

Textbook: *Anatomy & Physiology*

Instructional Material: Textbook, charts, specimens, videos, models, labs, dissections

Course Rationale and Description: This is designed to be equivalent to a two-semester honors course and students are expected to accordingly. This course differs significantly from traditional high school biology in text content, depth of material, lab work and effort required to achieve mastery. The teaching teacher's signature is required for placement in the course.

Course Topics:

- Skin, bones and muscles
- Digestion
- Nervous system
- Cardiovascular system
- Lymphatic system
- Excretory system

Instructional Activities: Lecture, discussion of recent biological advancements, laboratory time, formal lab reports, note-taking, outlining, videos, formal lab reports.

CP Forensics

Course Number: FOR401

Level: Junior or Senior

Credits: 1 **Weight:** 1.00

Prerequisites: CP/HN Biology I

Textbook: *Forensic Science: Fundamentals & Investigations*

Instructional Material: Textbook, PowerPoint/lecture, diagrams, models, videos, supplemental materials, homework assignments, laboratory techniques and simulations

Course Rationale and Description: This course will teach the fundamental concepts underlying forensic science. The study of forensics includes criminal justice and various sciences including biology, chemistry, physics, psychology, earth science and mathematics. The class investigates a variety of forensic science principles from the crime scene to the laboratory and court room. Students explore the history and theory behind forensic techniques based on evidence found at a crime scene and apply these techniques to evidence investigations through laboratory activities and simulations.

Course Topics:

- Observation skills
- Crime scene investigation
- Evidence collection
- Study of hair, fibers, and textiles
- Pollen and spore examination
- Fingerprints
- DNA fingerprinting
- Blood and blood spatter
- Drug identification and toxicology
- Handwriting analysis and forgery
- Death and anthropology
- Impressions and tool marks
- Ballistics

Instructional Activities: Lecture, discussion, PowerPoint, videos, diagrams, models, laboratory techniques

SOCIAL STUDIES DEPARTMENT

CP World History

Course Number: WHI100

Level: Freshman

Credits: 1 **Weight:** 1.00

Prerequisites:

Textbook: World History: The Human Journey

Course Rationale and Description: This course studies the development of civilization in the Middle East, Europe and Asia within a focus on geography.

Course Topics:

- Middle East: Ancient Egypt, Origins of Judaism, The Ottoman Empire, Nationalism, War Revolution and oil
- Europe: Greece and Rome, Middle Ages and Renaissance, European Monarchs and the Russian Revolution
- Asia: Ancient China through the Vietnam War

Instructional Activities: Lecture, discussion, debate, Multi-media

CP American History I

Level: Sophomore

Credits: 1 **Weight:** 1.00

Prerequisites: None

Textbook: *Call to Freedom: Beginnings to 1877*

Course Rationale and Description: This course will introduce students to the time periods 1500-1877, beginning with New Empire in America through post civil war reconstruction.

Instructional Activities: Lecture, discussion, debate, Multi-media

CP American History II

Course Number: AHH300

Level: Juniors

Credits: 1 **Weight:** 1.00

Prerequisites: CP American History I

Textbook: *Call to Freedom: 1865 to the Present*

Instructional Material: Readings, maps, films, political cartoons, etc.

Course Rationale and Description: This course will introduce students to the time period of American History that has come to define our modern political and social era. From the end of World War II and the ensuing Cold War, up to our present-day history in the years of the War on Terror after September 11th. Along the way, students will consider important movements that define who we are, notably those involving Women's and Civil Rights for all Americans. Through examining great successes and tragedies, students will better understand their own role in America's unfolding narrative

Instructional Activities: Lectures, Activities using primary/secondary sources, creative projects, research papers, other computer based programs.

CP American Government

Course Number: AMG300

Level: Senior

Credits: 1 **Weight:** 1.00

Prerequisites: None

Textbook: Holt: *American Government*

Instructional Material: Films, National Geographic's *The White House* and *Air Force One*, IRS material

Course Rationale and Description: This course is a practical study of the features and functions of U.S. government and political systems. All levels of government will be studied in order to familiarize students with their rights and responsibilities as citizens.

Course Topics:

- Government systems
- Economic systems
- Foundations of American government
- Citizenship in the United States
- The law
- Congress
- The President
- The courts
- State governments
- Local governments

Instructional Activities: Lecture, discussion, debate, multi-media.

AP U.S. History

Course Number: HIS500

Level: Junior

Credits: 1 **Weight:** 1.05

Prerequisites: World History II or U.S. History III (Grade of B or higher)

Textbook: *The unfinished Nation: A Concise History of the American People, 7th Edition*

Instructional Material: Textbook, materials created by AP/College Board, primary/secondary sources from online sources

Course Rationale and Description: This course will take students along the entirety of the history of the United States, from pre-Columbian native societies to the present day. The course will prepare students for the spring AP exam by examining content and skills vital to historians at the early collegiate level. This course is great for students who desire to learn more about American history at a more detailed level than typical core social studies classes.

Course Topics:

- Evaluate the political development of the United States, from pre-colonial-societies to the modern-day
- Identify and critique key American figures and their influence on American society
- Assess the connection between economics and geography to the development of the American nation
- Utilize research and writing to create historical narratives that follow sources in a methodical manner
- Explain the basis and development of a uniquely "American culture"

Instructional Activities: Lecture, discussions, student-led learning activities, computer programs, research and writing, creative projects.

AP Psychology

Course Number: PSY500

Level: Senior

Credits: 1 **Weight:** 1.05

Prerequisites: None

Textbook: Myers, David G. (2014). *Psychology for AP, (2nd ed.)* New York: Worth Publishers.

Instructional Material: Textbook, handouts, videos

Course Rationale and Description: The AP Psychology course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, analyze bias, evaluate claims and evidence, and effectively communicate ideas.

Course Topics:

- History and Approaches
- Research Methods
- Biological Bases of Behavior
- Sensation and Perception
- States of Consciousness
- Learning
- Cognition
- Motivation and Emotion
- Developmental Psychology
- Personality
- Testing and Individual Differences
- Abnormal Behavior
- Treatment of Abnormal Behavior
- Social Psychology

Instructional Activities: Lecture, discussion, reflection questions, audio-visual presentations, tests

THEOLOGY DEPARTMENT

Theology 9 / Scripture and Christology

Course Number: THE100

Level: Freshman

Credits: 1 **Weight:** 1.00

Prerequisites: None

Textbook: *The Bible, The Bible: The Living Word of God, Jesus Christ: God's Love Made Visible, Bible Basics for Catholics*

Instructional Material: Excerpts from the *Catechism, YOUCAT* and writings of the Church Fathers

Course Rationale and Description: This course offers an introduction to the sacred text of the Christian tradition, that is to say, the Holy Bible. Designed specifically for incoming freshmen, this course presents an overview of Sacred Scripture and the fundamental principles for reading the Word of God. In likewise fashion, the second semester will entail an exposition on the life and teachings of the Word of God made flesh, Jesus Christ.

Course Topics:

- What is the Bible?
- The books of the Bible
- The Old Testament
- The New Testament
- Covenant relationship
- Introduction to soteriology

Instructional Activities: Lecture, discussion, group work, projects, reading outlines, journals

Theology 10 / Introduction to Moral Theology

Course Number: THE200

Level: Sophomore

Credits: 1 **Weight:** 1.00

Prerequisites: None

Textbook: *The Bible, Christian Morality: Our Response to God's Love*

Instructional Material: Excerpts from the *Catechism, YOUCAT* and writings of the Church Fathers

Course Rationale and Description: This course offers an introduction to traditional Catholic moral teaching. From the intrinsic dignity of the human person to the Ten Commandments, from the Beatitudes to a life of virtue, this course presents the human condition according to the teachings of the Magisterium. The instructor will encourage conversation and discussion among peers with the intention to foster a well-informed conscience and sense of morality.

Course Topics:

- Freedom and the moral act
- Ethical norms and laws
- The Ten Commandments
- The moral conscience
- Sin and conversion
- Theology of the Body

Instructional Activities: Lecture, discussion, group work, projects, reading outlines, journals

Theology 11 / Ecclesiology & Sacramental Theology

Course Number: THE300

Level: Junior

Credits: 1 **Weight:** 1.00

Prerequisites: None

Textbook: *The Bible, The Church: Christ in the World Today, The Sacraments: Encounters with Christ*

Instructional Material: Excerpts from the *Catechism, YOUCAT* and writings of the Church Fathers

Course Rationale and Description: This course presents a study of the Catholic Church as understood throughout history and considers contemporary documents from the Second Vatican Council particular to the Church in the modern world. In the second semester, this course expounds on the sacramental life of the Church.

Course Topics:

- The Papacy
- Images of the Church
- The Second Vatican Council
- The Divine Life
- The Sacraments

Instructional Activities: Lecture, discussion, group work, projects, reading outlines, journals

Theology 12 / The Question of God

Course Number: THE400

Level: Senior

Credits: 1 **Weight:** 1.00

Prerequisites: None

Textbook: *The Bible*

Instructional Material: Excerpts from the *Catechism*, *YOUCAT*, writings of the Church Fathers and St. Thomas Aquinas, especially the *Summa Theologica*

Course Rationale and Description: The word *apologetics* is derived from a Greek verb which means “to defend.” This course offers a systematic introduction to Catholic apologetics, an intellectual defense of Catholicism (in particular, the Judeo-Christian understanding of God). The application of natural reason will principally guide the structure and form of classroom discussion, demonstrating a harmony with faith. Outlined specifically for students with a theological foundation, the course nurtures a holistic and scholarly learning experience.

Course Topics:

- Introduction to logic
- Philosophy: Theology’s handmaid
- Proof of the existence of the soul
- Proof of the existence of God
- The necessity of religion

Instructional Activities: Lecture, discussion, group work, projects, reading outlines, journals

HN Western Traditions

Course Number: THE401

Level: Senior

Credits: 1 **Weight:** 1.03

Prerequisites: CP Theology 11 and instructor approval

Textbooks: *The Great Ideas*, *Sophie’s World*, *Tattoos on the Heart*

Instructional Material: Articles, films

Course Rationale and Description: Western Intellectual Traditions is meant to acquaint the student with the central themes that have marked Western thought. It is a capstone to the previous three years’ study of theology. The central question of the course is: “What does it mean to be human?” Students integrate and connect their prior learning and reflect on their own experience as a means to answer that question.

Course Topics:

- The nature of learning
- Establishment of ultimate questions
- The central question
- Socrates, Plato and Aristotle
- Spinoza, Kierkegaard, Hegel and Sartre
- Modern approaches

Instructional Activities: Seminar-style course: reading intensive, reflection, dialogue and medium-to-heavy writing.

World Religions

Course Number: THE101

Level: Freshmen-Senior (elective), 1st year international students

Credits: 1 **Weight:** 1.00

Prerequisites: None

Textbook: *World Religions (Center for Learning)*

Instructional Material: Textbook

Course Rationale and Description: This course is designed to introduce the student to the reality of many faiths in our world. Religions are living, changing things, inseparable from the cultures that practice them, and are a key force in human motivation both historically and in the present day. This course will explore some major world religions; it will also interrogate the common-sense understanding of “religion” itself. We will examine points of contact, exchange and co-existence in order to think critically about religion’s role in framing knowledge about the world and in shaping the communities we live in.

Course Topics:

- How to Study the World Religions
- Hinduism
- Buddhism
- East Asian Religions
- Islam
- Judaism
- Christianity

Instructional Activities: Students participate in class discussions, write journal pages, and reflect on experiences. They read information about religious founders such as Confucius, Siddhartha Gautama, Muhammad, and Jesus of Nazareth, and they read descriptions of various religious ceremonies and festivals such as Hinduism’s puja and Judaism’s Purim.

WORLD LANGUAGES DEPARTMENT

CP French I

Course Number: FRE100

Level: Freshman

Credits: 1 **Weight:** 1.00

Prerequisites: None

Textbooks: *Bon Voyage, Level 1*

Instructional Material: Textbook, workbook, handouts, CDs, DVDs, video tapes, slides

Course Rationale and Description: This course introduces students to communication in French in real-life situations by teaching fundamental vocabulary and structure and utilizing realistic conversations in natural, colloquial French. Students will also read and learn in French. This course can be taken at a 1.1 or 1.2 level. If 1.1 is taken, 1.2 must also be completed before moving on to French II.

Course Topics:

- Friends
- Family and home
- Grammar and verb structures
- Courses and before/after school
- At the café and restaurant
- Food and shopping

Instructional Activities: Lecture, class participation, workbook activities, oral presentations, textbook activities, oral repetition, research activities

CP French II

Course Number: FRE200

Level: Sophomore

Credits: 1 **Weight:** 1.00

Prerequisites: CP French 1.2

Textbooks: *Bon Voyage: Level 1*

Instructional Material: Textbook, workbook, handouts, CDs, DVDs, video tapes, slides

Course Rationale and Description: This course builds upon the foundations established in French I. Students are enabled to communicate in French in real-life situations by learning fundamental vocabulary and structure and utilizing realistic conversations in natural, colloquial French. Students will also read and learn in French.

Course Topics:

- Clothing
- Sports
- Grammar and verb structure
- Airport and airplane travel
- Trains and train travel
- Summer and winter
- Daily routines

Instructional Activities: Lecture, class participation, workbook activities, oral presentations, textbook activities, oral repetition, research activities

HN French III

Course Number: FRE300

Level: Junior

Credits: 1 **Weight:** 1.03

Prerequisites: CP French II

Textbooks: *Bon Voyage: Level 2*

Instructional Material: Textbook, workbook, handouts, CDs, DVDs, video tapes, slides

Course Rationale and Description: This course builds upon the foundations established in French I and II. Students are enabled to communicate in French in real-life situations by learning fundamental

vocabulary and structure and utilizing realistic conversations in natural, colloquial French. Students will read and learn in French about the culture of France and the Francophone world. Students will also communicate in written French.

Course Topics:

- Leisure activities
- Health and medicine
- Telecommunications
- Travel
- Banking and post office
- Food
- Cars and directions
- Grammar and verb structures

Instructional Activities: Lecture, class participation, workbook activities, oral presentations, textbook activities, oral repetition, research activities

HN French IV

Course Number: FRE400

Level: Senior

Credits: 1 **Weight:** 1.03

Prerequisites: HN French III

Textbooks: *Bon Voyage: Level 2, Un Coup d'oeil sur la France; Le Petit Prince*

Instructional Material: Textbook, workbook, handouts, CDs, DVDs, video tapes

Course Rationale and Description: This course builds upon the foundations established in French III. Students are enabled to communicate in French in real-life situations by learning fundamental vocabulary and structure and utilizing realistic conversations in natural, colloquial French. Students will also read and learn in French about the culture of France and the Francophone world. The student will also communicate in written French. The student will read a French novel.

Course Topics:

- Upper-level verb tenses
- French history
- French geography
- *Le Petit Prince*, novel

Instructional Activities: Lecture, class participation, workbook activities, oral presentations, textbook activities, oral repetition, research activities, reading history and a novel in the target language

HN Latin IV

Course Number: LAT400

Level: Senior

Credits: 1 **Weight:** 1.03

Prerequisites: HN Latin III

Textbooks: *Jenney's Second, Third and Fourth Year Latin*

Instructional Material: Textbooks, historical handouts, films, history books

Course Rationale and Description: This course allows students to use their Latin language skills to read an overview of Latin writers such as Vergil, Julius Caesar and Cicero. The highlighted historical period extends from the late Republic into the Empire. Students will examine the mechanics of Latin writing and see the various literary devices used by prominent writers, as well as acquire a detailed view of the period's politics and history.

Course Topics:

- Latin writers (Vergil, Julius Caesar, Cicero)
- Roman history and politics (late Republic to Empire)
- Latin writing mechanics and literary devices

Instructional Activities: Minimal lecture, class discussion, group work, reading aloud, lecture

CP Spanish I

Level: Freshman

Prerequisites: None

Textbooks: *Dime! Uno*

Instructional Material: Textbook, workbook, videos, handouts, cassettes, videotaping, Spanish websites

Course Rationale and Description: This course provides students with opportunities to develop their listening, speaking, reading and writing skills within the five standards of Foreign Language Learning: Communities, Connection, Communication, Comparisons and Cultures. Students will function at a low- to mid-novice level. Students will use memorized words and phrases to communicate about familiar topics related to home and community. This course can be taken at a 1.1 or 1.2 level. If 1.1 is taken, 1.2 must also be completed before moving on to Spanish II.

Course Topics:

- Greetings/Farewells
- Numbers 1-100
- Telling time
- Days and months
- Weather
- School items
- Family
- Spanish-speaking countries
- Modes of transportation
- Describing people
- Weekend activities
- Present tense of regular and some irregular verbs

Instructional Activities: Lectures, discussions, projects, listening exercises, paired oral practice, workbook activities, presentations, group work, teacher-directed activities

CP Spanish II

Level: Sophomore

Prerequisites: CP Spanish 1.2

Textbooks: *Dime! Uno, Dime! Dos*

Instructional Material: Textbook, workbook, videos, handouts, cassettes, videotaping, Spanish websites

Course Rationale and Description: This course provides students with opportunities to develop their listening, speaking, reading and writing skills within the five standards of Foreign Language Learning: Communities, Connection, Communication, Comparisons and Cultures. Students will function at mid-novice moving to mid-level proficiency. Students will use memorized words and phrases to communicate about familiar topics related to home and community.

Course Topics:

- Asking for and giving directions
- Affirmative *tu* commands
- Numbers 100 – 1,000,000
- Stem-changing verbs in present tense
- Clothing
- Preterite tense of regular verbs
- Preterite of *ir, ser, dar, hacer* and *ver*
- Demonstrative adjectives
- Reflexive pronouns and verbs
- Direct and indirect object pronouns
- Food and daily routines

Instructional Activities: Lectures, discussions, projects, listening exercises, paired oral practice, workbook activities, presentations, group work, teacher-directed activities

Course Number: SPN100

Credits: 1 **Weight:** 1.00

Course Number: SPN200

Credits: 1 **Weight:** 1.00

HN Spanish III

Course Number: SPN300

Level: Junior

Credits: 1 **Weight:** 1.03

Prerequisites: CP Spanish I & II

Textbooks: *Dime! Dos, Dime!*

Instructional Material: Textbook, workbook, videos, handouts, cassettes, videotaping, Spanish websites

Course Rationale and Description: This course provides students with opportunities to develop their listening, speaking, reading and writing skills within the five standards of Foreign Language Learning: Communities, Connection, Communication, Comparisons and Cultures. Students will function at mid-level moving to advanced proficiency. Students will use memorized words and phrases to communicate about familiar topics related to home and community in present, past and future tenses.

Course Topics:

- Review present- and past-tense verbs and present progressive
- Imperfect, future and reflexive verbs
- *Tu* commands
- Stem-changing verbs in preterite
- Subjunctive, *ojalá* and expressions of persuasion
- Prepositions *por* and *para*
- Expanding vocabulary
- Spanish culture, music, food, holidays and customs

Instructional Activities: Lectures, discussions, projects, listening exercises, paired oral practice, workbook activities, presentations, group work, teacher-directed activities

HN Spanish IV

Course Number: SPN400

Level: Junior

Credits: 1 **Weight:** 1.03

Prerequisites: CP Spanish I & II, HN Spanish III

Textbooks: *Dime! Passaporte al Mundo*

Instructional Material: Textbook, workbook, videos, handouts, cassettes, videotaping, Spanish websites

Course Rationale and Description: This course provides students with opportunities to develop their listening, speaking, reading and writing skills within the five standards of Foreign Language Learning: Communities, Connection, Communication, Comparisons and Cultures. Students will function at an advanced level of proficiency. Students will use memorized words and phrases in present, past and future tenses.

Course Topics:

- Review present, past, imperfect and future tenses
- Regular, irregular, stem-changing and reflexive verbs
- Review of grammar structures
- Readings short stories in the target language and comprehension skills
- Review uses of *por* and *para*
- Class conducted mostly in target language, with little spoken English
- Hispanic culture

Instructional Activities: Lectures, discussions, projects, listening exercises, paired oral practice, workbook activities, presentations, group work, teacher-directed activities

JESUIT VIRTUAL LEARNING ACADEMY

World Languages

Arabic Level I

Department: JVLA World Languages

Full Year

Level: Sophomore – Senior

Credits: 1 **Weight:** 1.00

Prerequisites: JVLA electives are offered to students who show academic initiative in their prior courses and are able to work independently online.

Course Description: This yearlong course (for students with little or no prior knowledge of Arabic) combines the study of the Arab language with an introduction to Arab-speaking cultures. Students will gain practical experience in speaking Arabic with proper pronunciation to acquire basic conversational skills on topics such as greetings, shopping and travel. Moving the English language-centered to an Arabic-centered class, students will learn basic vocabulary and sentence patterns used in daily life and social interaction. Cultural notes will be given along with speaking practice necessary for interpersonal communication.

Chinese Mandarin Level I

Department: JVLA World Languages

Full Year

Level: Sophomore – Senior

Credits: 1 **Weight:** 1.00

Prerequisites: JVLA electives are offered to students who show academic initiative in their prior courses and are able to work independently online.

Course Description: This course combines the study of the Chinese language with an introduction to Chinese culture. Students will gain practical experience speaking Mandarin with proper pronunciation using the pinyin system to acquire basic conversational skills. Students will learn basic vocabulary and sentence patterns used in daily life and social interaction. Culture notes will be given along with speaking practice necessary for interpersonal communication. In addition, a certain amount of Chinese written characters are studied with a fun approach.

Italian Level I

Department: JVLA World Languages

Full Year

Level: Sophomore – Senior

Credits: 1 **Weight:** 1.00

Prerequisites: JVLA electives are offered to students who show academic initiative in their prior courses and are able to work independently online.

Course Description: Introduction to the basics of conversational Italian, including nouns, regular and irregular verbs, and basic conversations from Italian to English and English to Italian. This course will be team-taught by an Italian teacher in the United States and an English teacher in Italy. Students will communicate in Italian with native speakers in Italy. Successful completion of Italian 1 is a prerequisite for admission into Italian 2, 3 and AP Italian.

Theology

Bioethics

Department: JVLA Theology

Fall Semester

Level: Junior – Senior

Credits: 0.5 **Weight:** 1.00

Prerequisites: JVLA electives are offered to students who show academic initiative in their prior courses and are able to work independently online.

Course Description: This course is a general introduction to ethical theory and reasoning and its application to a number of hot current world issues, with particular emphasis on bioethics (moral dilemmas of modern biological and medical fields). It begins by addressing the question, why do ethics and moral decision making matter at all in a world we see operation so frequently without them? It surveys major ethical paradigms (common-good ethics, rights ethics, virtue ethics, and ethical relativism) and considers how each can help and hinder our pilgrimage to responsible, life giving choices for us and for our larger human family. Respectful consideration of opposing viewpoints, including the official teachings of the Catholic Church, is a hallmark of the course. By the end of the course, students should be able to manage some real cases on a committee of fellow ethicists using the vocabulary germane to ethicists in hospitals today.

Science

AP Environmental Science

Department: JVLA Science

Full Year

Prerequisites: Chemistry and Biology

Course Description: The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Labs will be coordinated with the student's brick-and-mortar school. In the spring, students will be eligible to take the AP Environmental Science Exam offered by the College Board at their school. This class will take up a lot of time, so it is recommended that students have room for it in their schedule.

Astronomy: An Introduction

Department: JVLA Science

Spring Semester

Level: Junior – Senior

Credits: 0.5 **Weight:** 1.00

Prerequisites: JVLA electives are offered to students who show academic initiative in their prior courses and are able to work independently online.

Course Description: At some point in our lives, each of us has gazed at the night sky in awe of its sheer magnitude. While we have learned much about our planet and its relationship to other celestial bodies, in many ways, the cosmos is the last great frontier. But how did it come to be? How large is it? How much do we know about the universe versus what remains to be discovered? This course provides an introduction

to the solar system, stars, the interstellar medium, the galaxy and the universe. It is also designed to force students to think like scientists—separating facts from theory, studying relationships between objects in search of patterns, and more. Please note that Astronomic principles are grounded in Physics (which is largely grounded in Mathematics). Though students need not have studied Physics previously, they should be prepared to work within this discipline.

Mathematics

AP Calculus BC

Department: JVLA Mathematics

Full Year

Level: Junior – Senior

Credits: 1 **Weight:** 1.05

Prerequisites: JVLA electives are offered to students who show academic initiative in their prior courses and are able to work independently online.

Course Description: AP Calculus BC will cover all of the topics associated with AP Calculus AB, including the study and application of differentiation and integration, and graphical analysis including limits, asymptotes and continuity. In addition, AP Calculus BC includes the study of convergence tests for series, Taylor and/or Maclaurin series, the use of parametric equations, polar functions (including arc length in polar coordinates), calculating curve length in parametric and function equations, L'Hôpital's rule, integration by parts, improper integrals, Euler's method, differential equations for logistic growth, and using partial fractions to integrate rational functions.

AP Human Geography

Department: JVLA Social Studies

Full Year

Level: Junior – Senior

Credits: 1 **Weight:** 1.05

Prerequisites: JVLA electives are offered to students who show academic initiative in their prior courses and are able to work independently online.

Course Description: AP Human Geography focuses on the spatial variations among cultural groups with an emphasis on analyzing geographic differences in language, religion, economy and government. In this course, students will discern patterns of land usage, internal structures of cities, size and spacing of human settlements, as well as interpret maps, graphs and tables. Units of study include culture, population, migration, language, religion, ethnicity, political geography, economic development, industry, agriculture and urban geography.

AP Macroeconomics

Department: JVLA Social Studies

Spring Semester

Level: Sophomore – Senior

Credits: 0.5 **Weight:** 1.05

Prerequisites: JVLA electives are offered to students who show academic initiative in their prior courses and are able to work independently online.

Course Description: How should faithful Catholics think about economics? This course integrates selected themes from the Neoscholastic School of economics with the content of the AP Economics syllabus in macroeconomics. The course prepares students to do well on the AP Macroeconomics exam, as well as offer a way to view our redeemed creation through the prism of social science. The economic way

of thinking does not begin with Adam Smith. It is based on insights from Aristotle, St. Augustine, St. Aquinas, the Jesuit and Franciscan theologians at the University of Salamanca in Spain during the sixteenth and seventeenth centuries, and on the Popes' social encyclicals. We develop our understanding of basic economic concepts and analytic tools by anchoring them to our faith's moral traditions and foundations.

AP Microeconomics

Department: JVLA Social Studies

Fall Semester

Level: Sophomore – Senior

Credits: 0.5 **Weight:** 1.05

Prerequisites: JVLA electives are offered to students who show academic initiative in their prior courses and are able to work independently online.

Course Description: How should faithful Catholics think about economics? This course integrates selected themes from the Neoscholastic School of economics with the content of the AP Economics syllabus in microeconomics. The course prepares students to do well on the AP Microeconomics exam, as well as offer a way to view our redeemed creation through the prism of social science. The economic way of thinking does not begin with Adam Smith. It is based on insights from Aristotle, St. Augustine, St. Aquinas, the Jesuit and Franciscan theologians at the University of Salamanca in Spain during the sixteenth and seventeenth centuries, and on the Popes' social encyclicals. We develop our understanding of basic economic concepts and analytic tools by anchoring them to our faith's moral traditions and foundations.

Computer Science

AP Computer Science

Department: JVLA Computer Science

Full Year

Level: Junior – Senior

Credits: 1 **Weight:** 1.05

Prerequisites: At least one course in a programming language such as C++, Visual Basic .Net, or Java. Students should know how to edit, compile and run a program.

Course Description: This course is a college-level introduction to object-oriented programming in Java. Students will focus on a problem-solving approach designed to focus attention on programming algorithms and data structures. Students will be fluent in the syntax and logic structures of the Java programming language, as well as familiar with the Java API. Students will attempt difficult programming challenges, reflect on these exercises and share their discoveries with their peers. In the spring, students will be eligible to take the AP Computer Science A Exam offered by the College Board at their school. This class will take up a lot of time, so it is recommended that students have room for it in their schedule.

C++

Department: JVLA Art

Fall Semester

Level: Sophomore – Senior

Credits: 0.5 **Weight:** 1.00

Prerequisites: JVLA electives are offered to students who show academic initiative in their prior courses and are able to work independently online.

Course Description: This course will introduce students to computer programming using the C++ programming language. C++ is a programming language used in many applications, across many

different industries. Through this course, students will learn the basic syntax necessary to write a computer program. They will learn how to attack a problem using the proper planning techniques. Students will learn about control structures, loops, procedures, arrays and much more. Another important aspect of this course is learning how to collaborate with other students. Each student will be put in a group of 3 and will work together to meet the objectives of the module. Collaborating with other students is essential to the success of students in this course, as well as a much needed life skill.

Art

AP Art History

Department: JVLA Art

Full Year

Level: Junior – Senior

Credits: 1 **Weight:** 1.05

Prerequisites: JVLA electives are offered to students who show academic initiative in their prior courses and are able to work independently online.

Course Description: This survey course will cover the history of art from prehistory to the present. Students will study historically significant works of art, including architecture, painting, sculpture and mixed media. Through this course, students will learn to identify, analyze and discuss artworks from a variety of cultures and stylistic periods. Students who complete this course will be prepared to take the AP examination in the spring. Strong organization and time management skills would be helpful. This class will take up a lot of time, so it is recommended that students have time for it in their schedule.

OTHER REQUIRED COURSES

Freshmen Cycle

- **Public Speaking**

Course Number: ACS101
Credits: 0.25 **Weight:** 1.00

Level: Freshman

Prerequisites: None

Course Rationale and Description: This class is a practical course designed to offer the novice speaker a number of opportunities to organize and prepare public speaking assignments. Students are required to research, prepare, and present one speech per quarter.

Course Topics:

- Personal Information
- Declamation
- How to Speeches/
Demonstration
- Extemporaneous
- Oral Interpretation

Teaching Methods: Lecture, Internet search/research, public speaking format as governed by Pennsylvania speech and debate league. All reference materials available upon request.

- **Academic Skills**

Course Number: ACS100
Credits: 0.25 **Weight:** 1.00

Level: Freshman

Prerequisites: None

Textbook: Grammar and Composition Handbook – Glencoe, Study Skills: Do I really need this stuff?

Instructional Material: textbook, handouts, organizational materials, videos

Course Rationale and Description: This course is a continuation of writing skills, grammar skills, and reading comprehension. Students will build on basic knowledge to enable them to write in complete sentences, construct a paragraph with a thesis statement, extract important material from reading texts, and gain an understanding of basic English grammar skills to improve writing and speaking skills. This will also aid in the learning of a foreign language.

Course Topics:

- Goal-setting
- Organization
- Being an effective student
in the classroom
- Note-taking and outlining
- Time management
- Test-taking strategies

Teaching Methods: lectures, reading and writing assignments, grammar exercises, testes, quizzes, group work

- **Freshman Physical Education**

Course Number: PE100
Credits: 0.25 **Weight:** 1.00

Level: Freshman

Prerequisites: None

Textbook: None

Instructional Material: P.E. equipment specific to unit, gym uniform

Course Rationale and Description: Class meets daily for nine weeks, with emphasis on physical fitness and lifetime sports skills and activities.

Course Topics:

- Cardio-respiratory fitness
- Circuit training and weight lifting
- Lead-up soccer
- Flag football and tag games
- Team handball
- Basketball skills and games
- Floor hockey
- Lacrosse skills and games
- Pilates, yoga and step aerobics
- Ballroom and line dancing
- Volleyball
- Badminton
- Racquetball skills
- Golf skills
- Tennis skills
- Baseball/Softball
- Kickball and dodgeball games

• **Health Education**

Course Number: HPE100

Level: Freshman

Credits: 0.25 **Weight:** 1.00

Prerequisites: None

Textbook: *Health: Skills for Wellness*

Instructional Material: Textbook, PowerPoint/lecture, diagrams, models, videos, supplemental materials, homework assignments

Course Rationale and Description: Health education introduces students to the body systems. This course includes discussion of skeletal, muscular, nervous, cardiovascular, respiratory, endocrine, reproductive, digestive, excretory and integumentary systems, as well as visual and auditory skills. Students will gain understanding of how the human body functions and how to maintain these systems, applying directly to their lives.

Course Topics:

- Structure, function, disorder and maintenance of body systems
- Skeletal, muscular and nervous systems
- Cardiovascular and respiratory systems
- Digestive and excretory systems
- Skin, eyes, ears
- Endocrine and reproductive systems

Instructional Activities: Lecture, discussion, PowerPoint, reading comprehension and supporting assignments, videos, diagrams, models

Senior Physical Education

Course Number: PE101

Level: Junior – Senior

Credits: 0.25 **Weight:** 1.00

Prerequisites: None

Textbook: None

Instructional Material: P.E. equipment, gym uniform

Course Rationale and Description: This course emphasizes physical fitness, lifetime sports skills and total adult fitness.

Course Topics:

- Elements of physical fitness
- Cardiovascular work

- Circuit training and weight lifting
- Soccer and flag football
- Team handball
- Basketball
- Hockey
- Lacrosse

- Pilates, yoga, step aerobics
- Ballroom and line dancing
- Volleyball, badminton, table tennis
- Racquetball and tennis
- Baseball/Softball
- Kickball and dodgeball

Humanities

Course Number: HM100

Level: Senior

Credits: 0.75 **Weight:** 1.00

Prerequisites: None

Textbook: *Discovering Art History*

Instructional Material: Films, handouts, worksheets

Course Rationale and Description: This is a two semester course. Humanities is the study of Human Culture; students will explore various forms of human expression and communication. They will be given the opportunity to express problems, evaluate solutions and discuss social and economic factors. Students will also gain the knowledge and understanding of diverse historical and cultural artwork, artists, and movements through time.

Course Topics:

- Art History
- Aesthetic Structures
- Social/Moral Issues
- Cultural Values and Traditions

ELECTIVES

Broadcast Journalism

Course Number: VID101

Level: Freshman – Senior

Credits: 1 **Weight:** 1.00

Prerequisites: Preferable but not limited to experience with video editing and story boarding

Instructional Material: Video equipment, Light Works editing software, split broadcasting, platform, lighting, audio, and studio production. YouTube uploading and maintaining of channel.

Course Rationale and Description: This introductory study of broadcast media (television and internet) will include technical instruction, writing for the ear, editing news scripts, video editing, camera operation, ad news show production. The main thrust of the course is to prepare students to produce KCN, Kennedy Catholic School News program.

Course Topics:

- Write in broadcast style conforming to ethical principles
- Develop reading habits that keep students aware of current news and become media literate
- Branding
- Employ field reporting techniques, write to video, and edit news stories on computers
- Use Final Cut Software
- Operation of a video camera

Business Law *Not offered 2018-19

Course Number: BUS101

Level: Freshman – Senior

Credits: 1 **Weight:** 1.00

Prerequisites: None

Textbook: *Understanding Business and Personal Law*

Instructional Material: Textbook, handouts, business news

Course Rationale and Description: Offered once every three years; will not be offered 2015-16.

This course is a general study of our legal system and how it applies to consumers. Its primary purpose is to heighten the student's understanding of the law and to prepare them to behave responsibly in a business environment.

Course Topics:

- State and federal court systems
- Laws
- Contracts
- Being a consumer

Instructional Activities: Lecture, discussion, current events, group and individual homework

Chorus

Course Number: MUS101

Level: Freshman – Senior

Credits: .5 **Weight:** 1.00

Prerequisites: None

Textbook: None

Instructional Material: Choral literature, CDs and DVDs

Course Rationale and Description: This course meets twice per week all year and provides students with the opportunity to develop their musical skills. Students will explore literature from different periods and develop music literacy.

Instructional Activities: Rehearsal, warm-up exercises, CDs

Concert Band

Course Number: MUS100

Level: Freshman – Senior

Credits: .5/1 **Weight:** 1.00

Prerequisites: None

Textbook: None

Instructional Material: Literature, CDs, DVDs

Course Rationale and Description: This course meets three days per week all year and focuses on the teaching of music. Students will explore a variety of music styles including jazz, classical and marches. Students will learn how to play the instrument of their choice.

Course Topics:

- Production
- Rehearsals
- Performance
- Technical skills
- Study of music

Instructional Activities: Lecture, rehearsals, performance, music listening, writing assignments

Method of Evaluation, Assessment and Grading: Exercises, performance, participation, tests

Drama

Course Number: THA101

Level: Freshman – Senior

Credits: 1 **Weight:** 1.00

Prerequisites: None

Textbook: None

Instructional Material: Scripts, handouts, worksheets, surveys, videos

Course Rationale and Description: Students will gain an understanding of the process of creating and exploring theatre and receive training in Konstantin Stanislavski's system of acting. Through self-evaluation, peer review and general criticism/coaching from the instructor, students will hone their skills in acting, public speaking, improvisation, creative analysis and creation of character. They will also be given opportunities to attend performances put on by Kennedy, other schools, or local playhouses.

Course Topics:

- Stage terminology
- Basic concepts
- Reading a script
- Concentration & attention
- Speech/Voice & diction
- Sense memory
- Movement
- Improvisation
- Monologues
- The audition
- Character development
- Trust & commitment
- Production & performance

Instructional Activities: Guided discussions, workshops, minimal lecture, hands-on theatre games, activities

General Business

Course Number: BUS100

Level: Freshman – Senior

Credits: 1 **Weight:** 1.00

Prerequisites: None

Textbook: *Introduction to Business: The Economy and You*

Course Rationale and Description: This course is a general study of economics. Its primary purpose is to inform students of economic terminology and prepare them to behave responsibly in a business environment. Offered once every three years.

Multimedia Art

Course Number:MMA100

Level: Freshman – Senior

Credits: 0.5/1 **Weight:** 1.00

Prerequisites: None

Textbook: None

Instructional Material: Handouts, photographs, sample artwork

Course Rationale and Description: This course is designed to give students a background in mixed media. Students will work with pencil, paint, pastels, air-dried clay and crafting material. Students will apply the elements and principles of design to produce creative projects which reflect their understanding of each concept.

Course Topics:

- Portrait drawing
- Watercolor and acrylic painting
- Advertising art
- Clayworks
- Crafts

Instructional Activities: Lecture, discussion, sketchbook activities, guided practice, observation, worksheets

Psychology

Course Number: PSY101

Level: Junior – Senior

Credits: 1 **Weight:** 1.00

Prerequisites: None

Textbook: *Psychology in the New Millennium*

Instructional Material: Textbook, handouts, videos

Course Rationale and Description: This course introduces students to the study of psychology. The course will follow the development of psychology from its beginnings in ancient Greece to the way it is practiced today. Psychology will be explored as an empirical science. Students will learn how the many schools of psychology have merged and explore some of the traditional areas in the study of psychology.

Course Topics:

- What is psychology?
- Research methods in psychology
- Biology and behavior
- States of consciousness
- Learning
- Psychological disorders
- Social psychology

Instructional Activities: Lecture, discussion, reflection questions, audio-visual presentations, tests

Publications

Course Number: PUB101

Level: Freshman – Senior

Credits: .5 **Weight:** 1.00

Prerequisites: Must be signed in by teacher

Textbook: *Journalism: A Handbook for Journalists*

Instructional Material: Textbook, Walsworth InDesign publishing software

Course Rationale and Description: The students in this course are responsible for the creation and publication of the school yearbook and school newspaper. They will learn proper writing and photography techniques in order to put together a product to be sold.

Course Topics:

- Creation of *Aquila*, the school yearbook
- Photography
- Activities, sports and events coverage
- Copy creation
- Headline creation
- Photography layouts

Instructional Activities: Lecture, writing assignments (creation of copy, headlines), photography assignments and layouts, creation of yearbook pages

Engineering I

Course Number: ROB100

Level: Freshmen - Senior

Credits: 1 **Weight:** 1.00

Prerequisites: Algebra I, Technical Drawing, must be taken currently with Geometry and Biology

Instructional Material: SolidWorks

Course Rationale and Description: This course provides an in-depth exploration of solid modeling using SolidWorks, along with an introduction to the Engineering Design Process. Students will first learn basic drawing concepts in order to understand how objects can be accurately represented through two-and three-dimensional drawings made from standard viewing angles. Students will then apply these concepts to make basic hand drawings before getting started in SolidWorks in order to help students develop the ability to visualize objects from different viewing angles – something that is critical for creating solid models. Students will develop a proficiency in using SolidWorks to model parts of varying complexity, create assemblies to model mechanisms, and produce sets of engineering drawings.

Course Topics:

- SolidWorks
- Introduction to Drawing Concepts
- Introduction to Sketching
- Basic Part Design
- Introduction to Drawings
- Intermediate Part Design
- Introduction to Assembly Design
- Modeling Physical Systems
- Introduction to the Engineering Design Process
- Preparing for the Certified SolidWorks Associate (CSWA)-Academic Exam

Instructional Activities: Modeling, Design, Sketching, Drawing

Sales and Marketing *Not offered 2018-19

Course Number: BUS102

Level: Freshman – Senior

Credits: 1 **Weight:** 1.00

Prerequisites: None

Textbook: *Marketing: Principles and Practices*

Course Rationale and Description: Offered once every three years; will not be offered 2015-16.

This course is a general study of marketing. Its primary purpose is to inform students of the terminology

used in product promotion and make them aware of the many career opportunities in the field of marketing.

Course Topics:

- Careers in marketing
- Marketing and economics
- Consumer behavior
- Market segmentation
- Retailing
- Promotion and selling
- Publicity and public relations
- Financial management

SAT/ACT Preparation

Course Number: SAT100

Level: Junior

Credits: 1 **Weight:** 1.00

Prerequisites: Algebra 1 and Algebra II

Textbook: *SAT Prep Black Book: The Most Effective Strategies Ever Published*

Instructional Material: Textbook, handouts, SAT website, SAT practice tests, calculator

Course Rationale and Description: This course is designed to assist students who are preparing to take the SAT. The source will familiarize students with test components, questions, problems and test-taking strategies. Actual questions from previous SATs will be used for practice. Mathematics and verbal sections will be covered. The course should also enhance students' verbal and mathematics skill levels.

Course Topics:

- SAT test-taking tips, tricks and strategies
- Math skills in arithmetic, algebra and geometry
- Time management
- SAT passage-based reading
- SAT sentence completion
- SAT essay
- SAT writing multiple-choice

Instructional Activities: Direct instruction with modeling, guided independent instruction, cooperative learning, problem-solving and critical thinking strategies, questioning strategies, peer and self-assessment

COURSE NUMBER REFERENCE

English

Academic Skills	ASC100
CP English 9	ENG100
HN English 9	ENG101
CP English 10	ENG200
HN English 10	ENG201
CP English 11	ENG300
HN English 11	ENG301
AP English 11	ENG500
CP English 12	ENG400
HN English 12	ENG401
AP English 12	ENG501
SAT/ACT Prep	SAT100
Publications	PUB101
ESL	ESL100
Public Speaking	ASC101

Information Technology

Innovative Technologies	CIT100
Engineering	ROB100
Broadcast Journalism	VID100

Mathematics

CP Algebra I	ALG200
CP Geometry	GEO300
HN Geometry	GEO400
CP Algebra II	ALG300
HN Algebra II	ATR301
CP Algebra III	ATR303
HN Precalculus	ANL300
AP Calculus AB	CLC500
HN Calculus	CLC400
GS Consumer Math	CON100
Integrated Math I	ALG100
Integrated Math II	ALG102
Integrated Math III	ALG103
Integrated Math IV	ALG104
HN Statistics	MTH400

Performance and Visual Arts

Humanities	HMI100
Chorus	MUS101
Concert Band	MUS100
Multimedia Art	MMA100
Drama	THA102

Physical Education

Freshman Phys. Ed.	PE100
Junior/Senior Phys. Ed.	PE101
Health Education	HPE100

Science

CP Biology I	BIO100
HN Biology I	BIO101
CP Chemistry	CHM200
HN Chemistry	CHM201
CP Environmental Science	ENS100
HN Physics I	PHY300
AP Physics II	PHY500
AP Biology	BIO500
AP Chemistry	CHM500
CP Human Anatomy	ANA300
HN Forensics	FOR401

Social Studies

World History I	WHI100
World History II	WHI200
American History	AHH300
AP U.S. History	HIS500
Economics	ECO100
World Geography	GEG100
CP American Government	AMG300
Psychology	PSY101
AP Psychology	PSY500
General Business	BUS100
Business Law	BUS101
Sales and Marketing	BUS102

Theology

Theology 9	THE100
Theology 10	THE200
Theology 11	THE300
Theology 12	THE400
HN Western Traditions	THE401
World Religions	THE101

World Languages

CP French I	FRE100
CP French II	FRE200
HN French III	FRE300
HN French IV	FRE400
HN Latin IV	LAT400
CP Spanish I	SPN100
CP Spanish II	SPN200
HN Spanish III	SPN300
HN Spanish IV	SPN400