

Paramus Catholic High School

Course Description Catalog



2019-2020

ADVANCED PLACEMENT

Advanced Placement courses are Paramus Catholic courses that are taught at the college level and approved by College Board. Given an acceptable AP Exam Score, students can earn college credits. Most four-year colleges in the United States and colleges in more than 60 other countries give students credit, advanced placement or both upon entering college.

- AP Art History
- AP Biology
- AP Calculus AB
- AP Calculus BC
- AP Chemistry
- AP English Language
- AP English Literature
- AP Environmental Science
- AP European History
- AP French Language
- AP Statistics
- AP Government and Politics*
- AP Italian Language
- AP Macroeconomics
- AP Microeconomics
- AP Music Theory*
- AP Physics I
- AP Physics II
- AP Psychology
- AP Spanish Language
- AP Spanish Literature
- AP Studio Art
- AP US History 1 & 2
- AP World History

(*) course offered online.

PROJECT ACCELERATION

The Project Acceleration program through Seton Hall University allows students to earn up to 22 credits from Seton Hall University for approved Paramus Catholic courses that are being taught at a college level. A student can pursue college credit for three courses per semester. College credits earned are accepted at more than 200 colleges and universities.

- Peer Ministry
- Social Justice
- Church History
- AP English Language
- AP English Literature
- AP World History
- AP Psychology
- AP Physics I
- AP Physics II
- AP Calculus AB
- AP Statistics
- Spanish IV Honors
- AP Spanish Language
- AP Spanish Literature
- AP French Language
- AP Italian Language
- AP European History
- AP United States History
- AP Biology
- AP Environmental Science
- Anatomy & Physiology Honors
- AP Art Studio

THE VIRTUAL HIGH SCHOOL

Learning in the 21st century presents exciting new opportunities for high school students. Paramus Catholic High School has partnered with The Virtual High School to offer students online courses. The Virtual High School is the worldwide leader in collaborative online education. These online courses take place entirely over the Internet. Students use electronic media to communicate with instructors and classmates. Online courses are designed for students who are self-motivated. For a full list of online courses and course descriptions, please visit The Virtual High School website (<https://vhslearning.org>).

SERVICE HOUR REQUIREMENT

- Freshmen – 25 hours
- Sophomores – 30 hours
- Juniors – 40 hours
- Seniors – 40 hours / Aquinas Scholars – 80 hours

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Graduation Requirements	
	Minimum Total Credits per Subject
Religion Four years	24
English Four years	22
Mathematics Three years (Colleges prefer four years)	15
Science Three years – 2 years must be lab sciences	17
Social Studies Four years – 1 year World History, 2 years U.S. History 1 year of another History or SS / Humanities elective	20
International Language Two consecutive years of the same language (colleges prefer 3-4 years)	10
Computer Technology One semester	2.5
Fine/Performing Arts One semester	2.5
Physical Education Two years – Required in grades 9 & 10	6
Credit Notes:	
* The minimum credit requirements for graduation stated below is greater than the credits per subject listed above due to student electives taken Junior and Senior year	
Scheduling Notes:	
* Freshmen and sophomores generally take the core courses of Religion, English, Math, Science, Social Studies, International Language, and Physical Education.	
* JUNIORS must take SEVEN (7) courses per semester even if one class is a lab science.	
* SENIORS must take SIX (6) courses per semester even if one class is a lab science.	
Minimum Credit Requirements for Graduation: 128 Credit Hours	

Aquinas Scholars Program '19 – '20

The Aquinas Scholars program is a rigorous, interdisciplinary, challenging sequence of courses designed for highly motivated, academically gifted students. Entrance into the program is by invitation only as determined by performance on both the Archdiocesan admissions exam and the final average in grades 7 and 8.

Those who score in the top percentiles of the admissions test in November and performed well in grades 7 and 8 will be notified in January that they are extended a scholarship and invited into the program.

Students who do not participate in the Aquinas program may still qualify for placement in some honors courses on an individual basis.

Aquinas Scholars must complete the graduation requirements expected of all students, but they will be required to exceed those requirements in certain areas of study. Aquinas Scholars are required to take the honors level, if offered, of any course they select. The courses included in the program are listed on this sheet.

Criteria for renewal: 90 overall weighted average each year and continued enrollment in all honors courses required.

Aquinas Program

Grade 9

Religion Honors

English 9 Honors

World History Honors

Algebra 1 Honors, Algebra I/II Honors, or Geometry Honors (based on Math placement test)

Biology Honors

International Language (Latin, French, Italian, Spanish – Honors if offered)

P.E./Health

Grade 10

Religion Honors

English 10 Honors

AP or Honors U.S. History 1 (Deferred until 11th grade if taking double Math)

Geometry Honors and Algebra 2 Honors if Algebra 1 Honors taken in 9th grade; Geometry Honors if Algebra I/II Honors taken in 9th grade; Algebra 2 Honors if Geometry Honors taken in 9th grade

Chemistry Honors

International Language (second or third level – Honors if offered)

P.E./Driver Education

Grade 11

Religion Honors

English 11 Honors or AP English Language & Composition

AP or Honors US History 2 (AP or Honors US History I if double Math in 10th grade)

Pre-Calculus Honors

Physics Honors, AP Biology, AP Chemistry, AP Physics 1, AP Environmental Science

International Language Honors (third level required, fourth level recommended)

Grade 12

Aquinas Senior Seminar (80 hours of Community Service required)

English 12 Honors or AP English Literature & Composition

AP or Honors US History 2 (if not taken in 11th grade)

Calculus Honors, AP Calculus or AP Statistics

*At least 1 course in addition to the Aquinas Senior Seminar must be AP level.

Academic Pathways

Business

Requirements:

- 2 consecutive years of a Foreign Language
- Speech
- Social Justice
- Introduction to Business
- Analytical or AP Statistics

Three elective course choices:

- Accounting
- Business Law / Ethics
- Personal Finance
- Economics or AP Economics
- Intro to Marketing and Public Relations
- Intro to Careers in Legal Professions
- Intro to Sports Administration and Marketing
- 2 additional years of Foreign Language for those students who have interest in International Business

The Virtual High School offers these electives:

- Entrepreneurship
- International Business
- Investing in the Stock Market

Medical / Healthcare

Requirements:

- Algebra
- Biology
- Chemistry
- 2 consecutive years of a Foreign Language
- Social Justice
- Preparation for Careers in the Medical Professions

Three elective course choices:

- Psychology / AP Psychology
- Sociology
- Anatomy / Anatomy and Physiology Honors
- Business Ethics and Law
- Intro to Physical Therapy
- Intro to Athletic Training and Sports Medicine
- Speech

The Virtual High School offers these electives:

- Biochemistry
- Biotechnology
- Bioethics
- Genes and Disease

Technology / Computer Science

Requirements:

- Introduction to Computer Technology
- HTML and Java Script Programming for Web Pages
- Computer Programming I
- Computer Programming II

Three elective course choices:

- Computer Graphics
- Robotics

The Virtual High School offers these electives:

- Programming in Visual Basic
- AP Computer Science A
- Video Game Design
- AP Computer Science Principles
- Web Design

Apex Learning offers these electives:

- 3D Game Development
- MOD Design 1 and 2
- 3D Game Design
- Server Design
- APP Design
- 3D Printing and Modeling
- 3D Animation
- 3D Character Animation

Law

Requirements:

- 2 consecutive years of a Foreign Language
- US History I and II
- Social Justice
- Introduction to Careers in Legal Professions
- Introduction to Law and Ethics

Three elective course choices:

- US History III
- Political Science
- Sociology
- Criminal Justice
- Speech

The Virtual High School offers these electives:

- Contemporary Issues in American Law and Justice
- Constitutional Law
- Practical Law
- Psychology of Crime

Engineering

Requirements:

- Algebra
- Geometry
- Physics, Physics Honors, or AP Physics
- Engineering Principles I
- Engineering Principles II
- Pre-Calculus, Pre-Calculus Honors, Calculus Honors
- 2 consecutive years of a Foreign Language

Three elective course choices:

- AP Physics II
- AP Calculus AB
- AP Calculus BC
- Computer Programming
- Computer Programming II

The Virtual High School offers these electives:

- Sustainable Engineering
- Mathematics of Electricity
- Java Fundamentals and Engineering
- CAD

Cultural Studies Pathway

Requirements:

- World Religions
- Modern World History, AP European History, or AP World History
- Political Science or Sociology
- 1 Foreign Language and Culture Class (Introduction to Japanese Language & Culture, Introduction to Arabic Language and Culture, AP French Language and Culture, AP Spanish Language & Culture, AP Spanish Literature & Culture, AP Italian Language & Culture or a VHS option)
- Myth and Legend
- Art Appreciation

The Virtual High School offers these electives:

- American Science Language
- Mandarin Chinese Language and Culture
- Film and Literature
- US Government
- Peacemaking
- The Holocaust
- German Language and Culture
- Russian Language and Culture
- Poetry Writing
- Modern Middle East
- Philosophy I
- The Glory of Ancient Rome

Criminal Justice / Law Enforcement

Requirements:

- Criminal Justice
- Sociology
- Psychology
- 2 consecutive years of Foreign Language

Three elective course choices:

- US History III
- Analytical Statistics / AP Statistics
- Political Science

The Virtual High School offers these electives:

- Biotechnology
- Contemporary Issues in American Law and Justice
- Psychology of Crime
- Criminology
- Practical Law

Fine Arts

Requirements: At least 3 course should be taken in a given area

Visual Art

- Art Appreciation
- Drawing and Composition
- Advanced Studio Honors I/II
- AP Art History
- Basic Elements of Design
- Advanced Drawing and Painting
- Portfolio Development
- AP Studio Art

The Virtual High School offers these electives:

- Art History: Art of the Caribbean Islands
- Creating Art History

Apex Learning offers this elective:

- Fashion Design

Performing Art

- Voice
- Dance I, II, III
- Theater Arts

Fine Arts Continued

Digital Art

- Computer Graphics
- Introduction to Video Production, Advanced Video Production
- Basic Photo, Advanced Photo

The Virtual High School offers these electives:

- History of Photography
- Shakespeare in Film
- Film and Literature

Music

- Voice
- Chamber Strings Ensemble
- Basic Guitar
- Rock / Jazz Instrumental Workshop
- Concert Choir
- Basic Piano
- Concert Band
- Music Appreciation / Theory

The Virtual High School offers these electives:

- AP Music Theory
- Music Listening and Critique
- American Pop Music
- Music: Fundamentals of Composition

Academic Course Offerings

Religion

111 – The Revelation of Jesus Christ

Grade Level: 9

Credits: 6

The first three quarters of the freshman curriculum will examine the revelation of Jesus Christ in Sacred Scripture. Through their study of the Bible, students will come to encounter the living Word of God, Jesus Christ. They will learn about the Bible and its value to people throughout the world. They will learn how to read the Bible and will become familiar with the major sections and books of the Bible. Particular attention will be given to the Gospels, where students may come to know and love Christ more personally. Students will understand that Jesus Christ is the ultimate Revelation to us from God. In learning who Jesus is, the students will learn who He is calling them to be. The final quarter of the year will focus on the foundations of Christian morality. Additionally, all students in ninth grade are required to complete 25 hours of community service.

☒ 115 – The Revelation of Jesus Christ Honors (Aquinas Scholars Only)

Grade Level: 9

Credits: 6

The freshman honors religion class will follow the same outline as the college prep course above, but will feature more challenging readings (novels, primary sources, etc.) and in-depth writing assignments.

☒ 121 – The Mission of Jesus Christ

Grade Level: 10

Credits: 6

The first three quarters of the sophomore curriculum will focus on the Paschal Mystery of Jesus Christ. Students will come to understand all that God has done for us through his Son. Students will learn that for all eternity, God has planned for us to share eternal happiness with Him, which is accomplished through the redemption Christ won for us. The final quarter of the year will focus on Christ's mission carried out in the Church. Students will learn about the sacred teachings of the Church. Additionally, all students in tenth grade are required to complete 30 hours of community service.

☒ 125 – The Mission of Jesus Christ Honors (Aquinas Scholars Only)

Grade Level: 10

Credits: 6

The sophomore honors religion class will follow the same outline as the college prep course above, but will feature more challenging readings (novels, primary sources, etc.) and in-depth writing assignments.

☒ 131 – Life in Christ

Grade Level: 11

Credits: 6

The first semester of the junior curriculum examines the seven sacraments of the Catholic Church. The purpose is to help students understand that they can encounter Christ in a full and real way in and through the sacraments. Students will examine each of the sacraments in detail from origin to application. The second semester of the junior curriculum will focus on Christian morality. It will help students understand that it is only through Christ that they can fully live out God's plans for their lives. Students will learn the moral concepts and precepts that govern the lives of Christ's disciples. Additionally, all students in eleventh grade are required to complete 40 hours of community service.

☒ 135 – Life in Christ Honors (Aquinas Scholars Only)

Grade Level: 11

Credits: 6

The junior honors religion class will follow the same outline as the college prep course above, but will feature more challenging readings (novels, primary sources, etc.) and in-depth writing assignments.

The senior Religion program incorporates the following electives which are intended to round out religious education and bring Christian understanding to the issues that most deeply affect student life. Moreover, seniors are required to fulfill 20 hours of community service for each senior elective – a total of 40 hours for the year. Aquinas Scholars are required to complete 80 hours of community service for the year.

✠ 143 – Church History

Grade Level: 12

Credits: 3

This course examines the history of the Catholic Church as it traces the impact of Christ and His teachings in the lives of people over the past two thousand years. The students will note how the early Christians endured persecutions, established institutional structures and developed statements of belief in response to challenges from within (heresies) and from without (persecutions). They will note how, through the development in its theology, liturgy, and initiation, the Church took shape. They will study how the separation of the empire into East and West led to differences between the Eastern and Western Churches and how the East – West Schism ensued. The impact of the Protestant Reformation and the major Councils of the Church will also be explored.

✠ – 145 Social Justice

Grade Level: 12

Credits: 3

This course examines the way Catholic social teaching is put into practice. The course teaches students how to apply the teachings of *Rerum Novarum*, *Quadragesimo Anno*, *Gaudium et Spes* and other major documents of Catholic social teaching into their own lives. It will encourage the students to recognize that they are the Church and have an obligation to help build the Kingdom of love, peace and justice envisioned by Jesus. The course will also focus on making the students aware of their obligation to fight against abortion, exclusion, prejudice, racism, discrimination, poverty and all other obstacles that prevent people from being all that God wants them to be.

✠ – 148 Christian Vocations

Grade Level: 12

Credits: 3

This course examines the lifestyles which allow Christians to fulfill our vocation to carry on Christ's mission in the world. The married, single, religious and ordained lifestyles are discussed in light of the fidelity and commitment which mark God's own model of love. The course will suggest practical ways of developing loving, intimate relationships, as well as parenting skills which are most appropriate for a Christian home. From this course, students will learn what it means to live life for the benefit of others and the value in considering a vocation in service to the Christian community.

✠ 144 – World Religions

Grade Level: 12

Credits: 3

This course examines the common bonds which the Great Religions of the world share with Christianity. While recognizing the differences of vision and religious practice among religions, the course encourages students to develop attitudes of understanding and respect for the beliefs and practices of others. Building on the foundational truth that Jesus Christ established the Catholic Church and entrusted to her the fullness of God's Revelation, the course is intended to help students

to recognize the ways in which important spiritual truths can also be found in non-Catholic Christian churches, as well as in non-Christian religions.

✠ 142 – Peer Ministry: Developing Leadership for Life

Grade Level: 12

Credits: 6 Prerequisite: Two letters of recommendation

The Roman Catholic Church has a long history working with youth, and realizes that for youth ministry to be effective, it must be to youth, for youth, with youth, and by youth. This course will provide opportunities for students to participate actively in a peer ministry. They will learn about the Church's role in ministry to youth and about their own response to Christ's call to minister to each other. Students will be asked to submit a letter of recommendation from a teacher and an adult outside of the school who will attest to the student's leadership abilities. This course is a yearlong course dedicated to developing student leadership skills and styles for use at Paramus Catholic, in college and later in life. Students will be required to write at least one major research paper in this class. Additionally, students will be required to complete a mini internship with Campus Ministry.

✠ 147 – Faith and Media

Grade Level: 12

Credits: 3

We live in a media culture of non-stop information from the Internet, television, radio, movies, video games and advertising. Is there anything worthwhile in the media? Does media shape how we think and feel? Does media transmit values both negative and positive? Is anything sacred on television? Faith and Media examines the world of media to identify religious values in our culture. Students will view and discuss television programs, advertising, and films to understand the influence of media in their lives, and in the process will develop critical thinking skills through an analysis of the value messages in media.

✠ 161 – Aquinas Senior Seminar

Grade Level: 12

Credits: 7

"Fides quaerens intellectum" is the motto of the great saint and philosopher, St. Anselm of Canterbury. Literally translated "faith seeing understanding," this is the challenge that this course brings to the students of the Senior Honors Theology Class/Lab. This class is designed to give students the tools necessary to realize and explore a multidimensional curriculum, where faith and reason walk hand in hand. Students will study topics such as the nature of God, the Trinity, Christology, the role of evil in the world, liberation theology, etc., and will read works from theologians of the past and the present challenging students to apply these ideas to daily life. Students will also be engaged in cross-curricular reading in texts which engages thought in a variety of disciplines. The final project of the course will enable the students to stream across curriculum boundaries.

English

☞ 200 – Study Skills/Math & Composition Skills Reinforcement

Grade Level: 9

Credits: 5

In this introductory course students will explore learning strategies that will help them address the challenges of a college preparatory curriculum. Students will participate in a Study Skills Inventory to assess learning strategy deficiencies. The results of the inventory will be discussed with each student and an individual learning plan will be developed. Students will explore strategies for time management and planning, note taking, coping with stress, and procrastination. This course reinforces Algebra I, English and composition skills. Incoming freshmen will be placed in this program based on need as evidenced by entrance exam scores. Students in this program will defer their international language courses for one year.

☞ 210 – English I: Introduction to Literature

Grade Level: 9

Credits: 7

Freshmen develop their communication skills through the study of literature, grammar, vocabulary, and composition. In literature, students are introduced to the five genres: short story, essay, novel, poetry, and drama. The writing program, which emphasizes the process approach, integrates the three other disciplines. Students will develop their ability to write personal and analytical compositions using varied sentence structures and appropriate vocabulary. Four to five essays are assigned per marking period. These include expository, literary analysis, compare/contrast, persuasive, extended definition, and dramatic monologue/soliloquy. Students will collaborate on a one-act play. They also begin their preparation of the SAT exam. The course of study involves one outside novel, play, or non-fiction work each marking period. Classes meet eight times in a 6 day cycle. Two days are dedicated for lab time to address writing, grammar and language specifically.

☞ 215 – English I Honors: Introduction to Literature

Grade Level: 9

Credits: 7

English I Honors is designed for students who have already demonstrated proficiency in using the skills necessary to analyze literature and write effective prose. Students are expected to read literary selections independently and to complete outside readings with minimal teacher assistance. Students further develop their writing abilities with frequent essay assignments in which they demonstrate consistent clarity through skilled manipulation of language. The types of essays include expository, literary analysis, compare/contrast, persuasive, extended definition, critical review, how to, character sketch, and creative (vignettes, poetry, dramatic monologue/soliloquy, collaborative one-act play). Students are also assigned two novel-length outside readings per marking period. Classes meet eight times in a 6 day cycle. Two days are dedicated for lab time to address writing, grammar and language specifically.

☞ 220 – English II: American Literature

Grade Level: 10

Credits: 5

In this course, a chronological survey of American literature from colonial times to the present, students study and analyze the various movements that are reflected in our country's short stories, dramas, novels, and poetry. Correlation is established between the historical growth of the United States and the literature produced by its greatest writers. Students also hone their

composition skills through the continued use of the writing process, study of grammar, and mastery of vocabulary. They also begin their preparation of the SAT exam. Students write up to four essays a marking period, including a comparison essay, an expository essay, a persuasive essay, and an argumentative essay, which focus on literary content analyzed in class. Students are also taught appropriate methods of research and MLA formatting, and then complete a formal research paper. Students are also assigned one novel-length literary work to be read independently, per marking period.

225 – English II Honors: American Literature

Grade Level: 10

Credits: 5

Prerequisite: 88% in English I Honors or 90% in English I

The chronological study of American literature, from Native American times to the present, centers on literary movements and their characteristics. Students examine the way in which each of the major literary movements is reflected in contemporary literature, as well as the influence of political and social developments on literature through the years. Further proficiency in composition skills is achieved through critical writing about literature, study of word origins and vocabulary, SAT preparation, and literature based on grammar. Students are also taught appropriate methods of research and MLA formatting, and then complete a formal research paper. Students are expected to complete independent readings of two novel-length works per marking period.

230 – English III: British Literature

Grade Level: 11

Credits: 5

In this course, students trace the development of England's literary tradition, focusing on literary movements from the Old English period to the Modern Age. Emphasis is placed on the development of critical reading skills through the discussion and analysis of various genres of literature including poetry, drama, and short stories. Students write literary analysis essays each marking period, focusing on themes relating to the literature covered in each unit. Students are also taught appropriate methods of research and MLA formatting, and then complete a formal research paper. Continued attention is also given to preparation for the SAT. One novel-length work is assigned per marking period.

235 – English III Honors: British Literature

Grade Level: 11

Credits: 5

Prerequisite: 88% in English II Honors or 90% in English II

This advanced English Literature course is offered to students who have demonstrated an excellent ability to analyze literature both orally and in writing, complete extensive independent reading assignments, and produce “publish ready” compositions. Emphasis is placed on literary analysis and the writing of critical essays. Students are expected to complete two major writing assignments on selected topics each quarter: one analytical, and one reflective. Each assignment must show evidence of the writing process; i.e., pre-writing, drafting, and revising. Students also complete a research paper and continue to prepare for the SAT and ACT. Students read multiple poems, short stories, plays, and are assigned two novel-length works per marking period.

☞ 251 – Advanced Placement English: Language & Composition

Grade Level: 11

Credits: 5

Prerequisite: 90% in both English I and II Honors AND a writing sample

This college-level literature course is offered to students who have consistently demonstrated exceptionally high achievement and interest in the study of literature and composition. Both effective writing and critical reading are developed in the course. By reading and analyzing literature, students will critique how writers use features of language, style, rhetoric, and form to reach different audiences for varied purposes. Students should expect to become readers of prose and writers who can show flexibility in the choices that they make expressing their ideas and feelings. Student presentations will be required for specific book discussions. A student interested in this course should be a strong reader and a writer with an understanding of English language conventions and mechanics.

☞ 240 – English IV: World Literature

Grade Level: 12

Credits: 5

World Literature is comprised of a selection of European and non-Western literature in translation. Study begins with ancient Egyptian literature and includes other literature from China, Japan, Russia, Africa, Greece and Rome. Students trace the development of the various genres across the centuries and reflect on timeless themes. Composition skills are refined as students incorporate grammar and vocabulary into well-written essays about literature and timely events. Independent reading continues with students being assigned one novel-length work per marking period.

☞ 245 – English IV Honors: World Literature

Grade Level: 12

Credits: 5

Prerequisite: 88% in English III Honors or 90% in English III

Students study translated literary works of European and non-Western cultures. The first semester of the course is dedicated to classical fiction from the ancient world including: Greek, Roman, Indian, Middle Eastern, and Egyptian literature. The second semester of the course will focus on more contemporary works of fiction from the twentieth century. This course will help students develop their ability to critically analyze literature. College level writing skills will be taught with a focus on literature based essays, literary criticism, MLA format, and thesis creation. Students will compose college application essays early in the first semester of the course. Students are expected to complete two assigned outside readings per marking period.

☞ 250 – Advanced Placement English: Literature and Composition

Grade Level: 12

Credits: 5

Prerequisite: 90% in both English II Honors and English III Honors and a writing sample OR Advanced Placement Language and Composition AND a writing sample

This college-level literature course is offered to students who have consistently demonstrated exceptionally high achievement and interest in the study of literature and composition. Highly motivated, capable seniors practice close textual study, complete reading comprehension exercises on a regular basis, write analytical in-class timed essays, and complete multiple literary analysis essays. An emphasis on critiquing prose, verse, and drama continues throughout the year.

☞ 231, 236 – Speech

Grade Level: 11, 12

Credits: 2.5

(This course fulfills the Fine Arts requirement.)

This class will prepare students to make oral presentations suited to almost any real-life situation: in the classroom, in interviews, in business and in other professions. Students will learn the basics of voice production, the most effective posture, and the techniques to relate to an audience. They will gain confidence in front of an audience and will enjoy creating and delivering speeches to inform, to persuade, to entertain, etc. While essentially a course on oral presentation, this class will also address writing skills. Students will produce speech outlines for all assignments, written supporting material, PowerPoint presentations, and finished texts for two advanced speech forms. These finished texts must show evidence of the writing process; i.e., pre-writing, drafting, and revising.

☞ 232 – Journalism

Grade Level: 11, 12

Credits: 2.5

Students in this course will learn the principles of good journalism: gathering and verifying facts, writing clear and relevant articles, and publishing within deadlines in compliance with ethical and professional standards. Throughout the semester, students will have the opportunity to serve as both reporters and editors. They will conduct interviews, as well as research, write, review, and edit feature articles, sports stories, columns, editorials, and headlines. This writing intensive course will also explore the related fields of broadcast journalism, photo journalism, and public/media relations. They will be required to read and complete assignments using various other newspapers, magazines, blogs, and research databases, all of which can be accessed via our school library. The course concludes with a final portfolio project, where students revise, organize, assemble, and reflect on the work they produced during the semester.

☞ 233 – Mythology and Legend

Grade Level: 11, 12

Credits: 2.5

(This course fulfills the Fine Arts requirement.)

This course will provide students the opportunity to study in depth some of the more mythological aspects of literature/history and the world. Concentrations include units studying mysterious places, mythological creatures, and other less explained phenomena, focusing on their origins in literature/history as well as the cultures surrounding them. Various texts will be used to establish a baseline understanding of concepts from each concentration, and students will be expected to pursue projects involving secondary sources for each unit. Multi-media projects and reflective writing assignments are assigned each quarter. The goal is to allow students an exploration of ideas that fosters both a critical and creative look at mythologies, legends, mysteries, and wonders of the world.

☞ 234 – Theatre Arts

Grade Level: 11, 12

Credits: 2.5

(This course fulfills the Fine Arts requirement.)

Students interested in acting or creative technology will find this course to be a comprehensive survey of the wide variety of disciplines that go into creating a show. They will explore the principles and theories of creative acting, and the acting methods and practices of the modern actor. Through in-class exercises and independent assignments, students will discover principles

of physical and vocal acting, as well as those of characterization and script analysis. Students will also experience hands-on opportunities to direct, design, and publicize. While essentially a performance-based course, students are expected to write regular responses to text readings, as well as written script analyses and annotations for all performance pieces and presentations. Each semester will culminate with either a performance or a design project.

241 – College Writing

Grade Level: 12

Credits: 2.5

The emphasis of this course is on the writing process itself. Students revise and edit their work on a continuing basis. Developing a clear thesis statement and strong topic sentences are primary concerns. Sentence structure, fluency of expression, and correct use of punctuation will be examined through hands-on writing exercises. Students are expected to write two major writing assignments on selected topics each quarter: one analytical and one reflective. Each assignment must show evidence of the writing process. In addition, students are assigned weekly written responses to specific prompts related to readings and discussion. These assignments will also reflect the writing process, and will be the equivalent of a 1-2 page reflective essay every two weeks. Students who complete this course should enter college with confidence in their ability to face the challenges of college level composition requirements.

244 – Creative Writing Honors

Grade Level: 11, 12

Credits: 2.5

(This course fulfills the Fine Arts requirement.)

This course will instruct students in the craft of writing creatively through analysis and interpretation of models, exploration of various methods, workshops, and responses. The focus will be on opportunities and skills required for students to craft and hone their own creative work. Short fiction and poetry are emphasized, but children's literature, humor, creative non-fiction and dramatic writing will be explored over the course of the semester. Students are expected to write on a daily basis. In addition, students are expected to assemble a poetry collection and a final portfolio of their work. This is a writing intensive course for students serious about expressing themselves creatively and improving their writing skills.

Mathematics

A TI-83 (84), TI-83+ (84 +), TI-83+ (84+) Silver Edition or TI Npire is required for all Mathematical courses.

310 – Algebra 1

Grade Level: 9

Credits: 5

Algebra is the language through which much of mathematics is communicated. Therefore, its core concepts are integral in the further education in mathematics and the effective use of mathematics in the workplace. Students will understand how quantities are related to one another and how algebra can be used to concisely express and analyze those relationships. Topics covered include solving equations; inequalities; proportions; systems of equations; functions and related graphs; polynomials; factoring; and quadratic equations. 21st technology will be implemented into the curriculum along with instructional websites and on-line videos that will be utilized to enhance student learning. Practice ACT/SAT problems will be integrated into the course in preparation for these standardized college entrance exams.

315 – Algebra I Honors

Grade Level: 9

Credits: 5

Prerequisite: Math Placement Test

The Honors curriculum will include all Algebra I topics but will be presented in a more rigorous and sophisticated manner. In addition, the course includes advanced factoring; and quadratic, rational, and radical functions will also be investigated. 21st technology will be implemented into the curriculum along with instructional websites and on-line videos that will be utilized to enhance student learning. Practice ACT/SAT problems will be integrated into the course in preparation for these standardized college entrance exams.

316 – Accelerated Algebra Honors

Grade Level: 9

Credits: 5

Prerequisite: Math Placement Test

This hybrid course serves the student who has demonstrated a mastery of Algebra I first semester concepts, yet still needs an introduction or reinforcement into a variety of topics covered in the remainder of the Algebra I curriculum. The Algebra II curriculum will be integrated with Algebra I so that the successful completion of this course will satisfy both the Algebra I and Algebra II requirements; and therefore enable the student to continue on to Geometry Honors with the intent to reach Pre-Calculus Honors by their third year. Please refer to the Algebra I Honors and Algebra II Honors course descriptions for a more in-depth knowledge of the topics covered in their respective curricula.

320 – Geometry

Grade Level: 10

Credits: 5

Prerequisite: Algebra 1 OR less than 85% in Algebra I/II Honors

The focus of this course is on Euclidean Geometry coupled with an emphasis on the ability to think logically. The course includes an in-depth analysis of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts as well as real-world applications. The building blocks of geometry such as points, lines, rays, and planes are embraced. In addition, core concepts such as congruence, similarity, angle measurement, and parallel/perpendicular lines are thoroughly discussed. Plane figures, circles, perimeter/area of two dimensional figures, and the surface area and volume of three dimensional figures are implemented into the curriculum. Furthermore, the Pythagorean Theorem, right triangle trigonometry, and proving triangles congruent are fully explored. Algebraic reasoning and an integration of properties from algebra provide a foundation and continuity for future mathematics courses. ACT/SAT logic and strategies will be integrated throughout the year.

325 – Geometry Honors

Grade Level: 9, 10

Credits: 5

Prerequisite: Grade 9 - Math Placement Test; Grade 10- 85% in Algebra I Honors OR 90% in Algebra I OR 85% in Algebra I/II Honors

This honors level course is designed to challenge the math student who has demonstrated above average math ability. Questions posed require students to apply knowledge in new and varied settings. Special emphasis is on developing the

ability to think logically and to present the thought process clearly. This curriculum focuses on geometrical concepts addressed in terms of algebra. It provides the continuity in the math sequence and allows students to be even more successful on the ACT/SAT test. Students are required to understand and implement the proofs of numerous theorems. The Euclidean system will be covered from the basic terms of points, lines and planes, to the more advanced concepts of: congruence in triangles; properties of quadrilaterals; similarity; proportions; circles; and right triangle trigonometry. 21st technology will be implemented into the curriculum along with instructional websites and on-line videos that will be utilized to enhance student learning.

☒ 330 – Algebra II

Grade Level: 10, 11

Credits: 5

Prerequisite: Algebra 1 and Geometry

This course deals with the structure of the systems of real and complex numbers. It aims to develop the ability to recognize the techniques of algebra as reflections of this structure. It leads to applying algebraic concepts and to perceiving the role of deductive reasoning in algebra. This course will explore solving, graphing, and factoring quadratic equations. Emphasis on functions, including the precision of language and comprehension regarding this concept, is investigated. This includes exploring the operations of addition, subtraction multiplication and division of functions, determining whether the inverse of a function represents a function, and the graphing techniques of rational expressions. ACT/SAT style questions and logic will be an essential part of this course and integrated into the curriculum throughout the year.

☒ 335 – Algebra II Honors

Grade Level: 10, 11

Credits: 5

Prerequisite: 85% in Algebra I Honors/Geometry Honors OR 90% in Algebra I/Geometry AND Teacher approval

This Honors course takes the core concepts learned in Algebra I and expands upon them to enhance the student's skills, theory, and applications. Topics include the real, imaginary, and complex number systems. In addition, the study of linear, quadratic, exponential, logarithmic, polynomial, and rational functions are an integral part of the curriculum. This course incorporates problem solving techniques, communication, data analysis, and 21st century technology to demonstrate the skills needed to succeed in this course. ACT/SAT based questions are incorporated throughout the curriculum during classroom lessons and assessments; and the logic and strategies needed to solve these types of questions will be practiced.

☒ 344 – Pre-Calculus

Grade Level: 11, 12

Credits: 5

Prerequisite: 85% in Algebra II OR 70-84% in Algebra II Honors

Pre-calculus is the continuation of the school's mathematics curriculum. Topics initially covered in the first semester include series, sequences, and functions and are done to prepare students for their final ACT/SAT exam. In addition, topics such as non-right-triangle trigonometry; and advanced logarithmic, exponential, polynomial, and rational functions are thoroughly explored. 21st century technology is fully integrated into the curriculum.

345 – Pre-Calculus Honors

Grade Level: 11, 12

Credits: 5

Prerequisite: 85% in Algebra II Honors OR 90% in Algebra II and Teacher approval

This course is designed for those third year honor students who have demonstrated above average math ability and who intend to study calculus as seniors, or for those students in their senior year who intend to study calculus as college freshmen. The course focuses on the theory and analysis of real-valued functions. While the class starts with some of the familiar algebraic functions, students are then introduced to many other functions in mathematics, such as sequences, polynomials, logarithms, and exponentials, with particular attention being paid to the trigonometric functions. Throughout this course, students are introduced to many theoretical constructs such as sets, domains and ranges, graphical relationships, function arithmetic, the polar coordinate system, and complex numbers.

340 – Calculus Honors

Grade Level: 12

Credits: 5

Prerequisite: 85% in Pre-Calculus Honors OR in Pre-Calculus and Teacher approval

This course is designed for the student interested in studying calculus senior year, or for the student who intends to study calculus as a college freshman. The course focuses on the theory and analysis of real-valued functions. While the initial topics include previously learned functions, students will explore many other concepts in mathematics such as: polynomials; logarithms; exponentials; trigonometric functions; sequences; and series. Throughout the course, students are introduced to many theoretical constructs such as sets; domains; ranges; graphical relationships; function arithmetic; the polar coordinate system; and complex numbers. 21st century technology is fully integrated into the curriculum.

331 – Robotics

Grade Level: 11, 12

Credits: 2.5

Prerequisite: Average of 85% or better in previous Math and Science courses.

The objective of this Robotics course is to provide a hands-on framework for teaching Math, Computer Science, teamwork, project management, and critical thinking. By immersing learners in Science, Technology, Engineering, and Math (STEM) concepts, we facilitate learning in a product based environment. Students will be instructed in programming as well as problem solving strategies. This course will focus on student learning through the production, the development, the building, and the programming of robots for various tasks. Topics for this course include motor control, gear ratios, torque, friction, sensors, timing, program loops, logic gates, decision-making, timing sequences, propulsion systems, and binary number systems.

348 – Analysis of Mathematical Principles

Grade Level: 12

Credits: 5

Prerequisite: 70-77% in Algebra II

This course provides an in-depth analysis in number theory as it pertains to mathematical subjects such as: polynomials, linear and quadratic equations, rational and radical expressions, ratios and proportions, functions, and the major concepts of Euclidean Geometry that include, but are not limited to perimeter, area, and right triangle Trigonometry. 21st century technology will be implemented into the curriculum throughout the year.

350 – Advanced Placement Calculus AB

Grade Level: 12

Credits 5

Prerequisite: 90% in Pre-Calculus Honors and Teacher approval

AP Calculus AB, which follows the AP syllabus, is fully equivalent to a college level introductory calculus course. As per the College Board's guidelines, the class is a mix of theoretical, methodical and applied topics of Calculus. Such theoretical topics include limits, the definition and concept of a derivative, L'Hôpital's Rule, differentiability and continuity, Riemann sums, the indefinite integral, and conic sections. Methodical topics include finding the derivatives and slopes algebraic functions; integration techniques; calculating the area, under and between, curves; computing the volume of rotated regions; and figuring average values. Finally, the applied concepts of the course include optimization, specific topics from physics and economics, evaluating areas, and finding centers of mass. A graphing calculator is required for this course. The TI-89 is recommended, but the TI-83, TI-83+, TI-84, and TI-84+ are all acceptable.

351 – Advanced Placement Calculus BC

Grade Level: 12

Credits: 5

Prerequisite: 85% in AP Calculus AB and Teacher approval

AP Calculus BC, which follows the AP syllabus, is fully equivalent to a college level introductory Calculus course. It is a full year course in the calculus of functions of a single variable. Students will work with functions represented in a variety of ways and understand the meaning of the derivative in terms of a rate of change and local linear approximation as well as use derivatives to solve problems. Students will study the definite integral both as a limit of Riemann sums and as the net accumulation of change. Students will also model a written description of a physical situation with a function in a differential equation or an integral. They will use technology to solve problems, experiment, interpret results and support conclusions. Students will be able to determine reasonableness of solutions, including sign, size, relative accuracy, and units of measurement. A graphing calculator is required for this course. The TI-89 is recommended, but the TI-83, TI-83+, TI-84, and TI-84+ are equally acceptable.

355 – Advanced Placement Statistics

Grade Level: 12

Credits: 5

Prerequisite: 90% in Algebra II Honors and Teacher approval

AP Statistics, which follows the AP syllabus, is fully equivalent to a college level introductory statistics course. The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students are exposed to four broad conceptual themes, exploring data, sampling and experimentation, anticipating patterns and statistical inference. Students who successfully complete this course and the AP examination may secure college credits or advanced status.

346 – Analytical Statistics

Grade Level: 12

Credits: 5

Prerequisite: 3 Years of Mathematics

The analysis of statistical data abounds in fields that range from broadcasting to law enforcement, from retail merchandising to professional sports. Students in this course will be instructed on the collection, analysis, and interpretation of data. The anticipation of patterns, probability, and statistical inference are explored in depth. Topics in this course include data classification, frequency distribution, measures of variation, central tendency, conditional probability, and distributions. This is a full year course and counts towards the Math graduation requirements.

Science

A TI-83 (84), TI-83+ (84 +), TI-83+ (84+) Silver Edition or TI Nspire is required for all Science courses.

410 – Biology (Lab Course)

Grade Level: 9, 10

Credits: 6

This course is designed to introduce students to the basic structure, function and interaction of living things. Emphasis is placed on the molecular nature of biology, cell structure, cell theory, and human body systems. Weekly experiments will prepare students for college level science courses by developing students' laboratory technique, as well as their ability to apply empirical critical thinking skills to solve problems, while concurrently reinforcing concepts covered in the classroom. Lab reports will be required for each experiment along with written analysis and oral presentation of current events and research articles; these will allow students to develop communication skills essential in any science field. Additionally, strong graphic instruction and integration of technology provide students with a visual description of complex processes.

415 – Biology Honors (Lab Course)

Grade Level: 9, 10

Credits: 6

This course stresses conceptual development of central biological concepts in a comprehensive, phylogenetic framework. It provides insight into the thinking process behind scientific discovery and emphasizes process and higher order thinking skills to show relevance of biology to everyday life, both in terms of students' present perspectives and their future roles in society. The topics are organized to have relevance to students through hands-on-laboratory investigations, problem solving and critical thinking. Areas such as the foundations of biology, cell biology, genetics and biotechnology, vertebrates and human biology will be discussed in detail. The integration of mathematics and technology will provide students with real-time labs and visual description of complex biological processes.

420 – Chemistry (Lab Course)

Grade Level: 10, 11

Credits: 6

Prerequisite: Algebra I and Biology with an 80% average

This course focuses on the study of the basic principles of chemistry by engaging students through lecture, discussion, critical thinking and hands-on laboratory work. Topics include the nature of matter and energy, the structure of the atom, the periodic

table, chemical bonding, equations and reactions, stoichiometry and the characteristics of gases, solutions, acids and bases. Integration of math and science is provided through exercises, collaborative learning and technology-enhanced projects. Interactive, real-time laboratory work allows the student to experience the concepts first hand, and develop an appreciation for how science affects our lives and our world. Students are required to submit written reports for laboratory experiments.

421 – Chemistry: Concepts and Applications (Lab Course)

Grade Level: 10, 11

Credits: 6

Prerequisite: 70%-79% in Math and Biology

The course focuses on the study of basic principles of chemistry through lectures, discussion, exercises, research, and laboratories. Topics include the history of chemistry, the nature of matter, the atomic structure, the periodic table, chemical bonding and reactions. The course emphasizes the connection between the real world as it presents basic concepts. Hands-on activities and computer-generated laboratory experiments provide a way of understanding the universe and gaining an appreciation of the usefulness of science to our lives. Students submit a lab worksheet for each lab. A significant project for the year will involve the Table of Periodic Elements.

425 – Chemistry Honors (Lab Course)

Grade Level: 10, 11

Credits: 6

Prerequisite: 88% in both Algebra 1 Honors and Biology Honors; or 90% in both Algebra I and Biology

This course explores the basic principles of chemistry through a series of comprehensive assessments at an accelerated pace. Topics include: dimensional analysis, chemical bonding, chemical equation equilibria and mastery, acid-base titration and a basic introduction to nuclear chemistry and organic chemistry. Laboratory exercises reinforce these basic principles through student inquiry and investigation. Emphasis is placed on scientific exploration to allow for discovery and interpretation. Students will be required to write a detailed report for laboratory sessions.

430 – Physics (Lab Course)

Grade Level: 11, 12

Credits: 6

Prerequisite: Algebra I and Algebra II; or Algebra II taken concurrently

The physics curriculum is designed as an overview of the basic principles of physics. Students will explore the fundamental features of the physical world such as time, space, motion, and energy. They will come to understand the relationship between matter and energy and how they interact. Through laboratory experiences and classroom discussions, the student is led to a solid understanding of the physical world. While the level of mathematics is not as demanding as the physics honors course, algebra geometry and elementary trigonometry are used to a significant extent. Students will be required to write a detailed lab report for each lab.

435 – Physics Honors (Lab Course)

Grade Level: 11, 12

Credits: 6

Prerequisite: 85% in Algebra I, Algebra II and Geometry and Teacher approval

This course is offered to those students who fulfill the prerequisites of the course and planning to pursue a career in science and technology. It is an accelerated and advanced level course as compared to college prep physics and prepares students to take AP physics senior year, college, or university course level in physics. The major goal is to study and apply basic principles of physics and applications of these principles using the scientific method. The theoretical approach is supported by integrating the experimental study. The theoretical study of physics I and II honors is integrated through various experimental approaches.

444 – Astronomy

Grade Level: 11, 12

Credits: 5

Prerequisite: Biology and Chemistry

Astronomy is the study of the sun, moon, stars, planets, and other phenomena of space. The topics include modern methods of observational astronomy, an overview of the scientific method, various fundamental principles of physics, chemistry, the age and origin of the solar system, and the possibility of life on other planets. Students will examine images and data from currently active missions of planetary science. Scientific methodology will be utilized and students will learn that astronomy has built a tremendous amount of knowledge over the centuries through observation, evidence, hypothesis and analysis. Students' work will include essays and projects.

446 – Zoology and Animal Behavior

Grade Level: 11, 12

Credits: 5

Prerequisite: Biology and Chemistry

Animal Behavior/Zoology is a course encompassing the study of animals. Topics of study emphasize taxonomy, diversity, anatomy, adaptations, evolution, environmental relationships, and behavior. This course is tailored for students who are interested in pursuing a career or field of study in the life or animal sciences. Materials for this course will be presented in a variety of forms including lecture, labs, and investigation of current research in the field, supplemental readings, discussions, hands on animal dissections, and the use of online and multimedia tools. This course included the potential for field trips and may yield service opportunities. A strong background in biology is preferred. Students will be required to write a detailed lab report for each lab.

450 – Advanced Placement Biology (Lab Course)

Grade Level: 11, 12

Credits: 7

Prerequisites: 90% in Biology Honors and 85% in Chemistry Honors OR 93% in Biology/Chemistry and Teacher approval

This course is designed to be an equivalent of a college introductory biology course usually taken by biology majors during their first year. The course is structured around the four big ideas and enduring understandings identified in the curriculum framework. By structuring the course around the four big ideas, students develop an appreciation for the study of life which enable them to identify and understand unifying principles within a diversified biological world. The process of inquiry in science and developing critical thinking skills is the most important part of this course. At the end of the course, students will

have an awareness of the integration of other sciences in the study of biology, understand how the species to which we belong is similar to, yet different from, other species, and be knowledgeable and responsible citizens in understanding biological issues that could potentially impact their lives.

452 – Advanced Placement Chemistry (Lab Course)

Grade level: 11, 12

Credits: 7

Prerequisite: 90% in Chemistry Honors and Algebra II Honors

This course is the equivalent of a first year college course in general chemistry. Chemistry is the study of atoms and molecules and how they interact according to physical laws. Chemistry is applicable to everyday life and such connections will be demonstrated throughout this course. Themes to be explored include relationships in the Periodic Table, atomic theory, chemical bonding, phases of matter and solutions, equilibrium, kinetics and thermodynamics. Special emphasis will be placed on the descriptive chemistry of reactions. Success in this course requires academic maturity, ability to work independently, a good approach to problem solving, and a good laboratory technique. Students will be required to write a detailed lab report for each lab.

454 – Advanced Placement Environmental Science (Lab Course)

Grade: 11, 12

Credits: 7

Prerequisite: Biology and Chemistry

AP Environmental Science is a college-level class offered to juniors and seniors on an elective basis. 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 or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. The laboratory and field investigation component of the AP Environmental Science course is to compliment the classroom portion by allowing students to learn about the environment through firsthand observation.

456 – Advanced Placement Physics I (Lab Course)

Grade: 11, 12

Credits: 7

Prerequisite: 85% in Algebra I, Geometry and Algebra II Pre-Calculus OR Pre-Calculus Honors taken concurrently.

Teacher's approval required.

AP Physics 1 is an algebra-based, introductory college level Physics course that is the equivalent of the first semester of introductory algebra-based college physics, that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills.

457 – Advanced Placement Physics II (Lab Course)

Grade: 11, 12

Credits: 7

Prerequisite: AP Physics I OR 85% in Physics Honors, and completion of Pre-Calculus OR Pre-Calculus Honors

AP Physics 2 is an algebra-based, introductory college-level physics course that is equivalent of second semester of introductory algebra-based college course that explores topics such as fluids statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics. Through inquiry-based learning students will develop scientific critical thinking and reasoning skills.

439 – Anatomy

Grade Level: 11, 12

Credits: 5

Prerequisite: Biology and Chemistry

This course offers a detailed investigation into the organization and structure of the human body. This entails the following: an investigation into the chemical basis for structure and function, histology, organs and systems. Heavy emphasis is placed upon understanding how the body functions as an integrated unit. This is accomplished through lecture, demonstration, the use of technology to provide illustrations, physiology labs and dissection. This course is geared to meet the needs of those who are investigating a career in the medical field or forensics.

440 – Anatomy and Physiology Honors

Grade Level: 12

Credits: 5

Prerequisite: 90% in Biology, Chemistry and Physics OR Physics taken concurrently and Teacher approval

This course covers the principles of human anatomy and physiology. The anatomy section of the course will encompass an investigation of the chemical and molecular basis of human structure and function and how it relates to tissues, organs and systems. The physiology component will deal with the molecular and structural elements in terms of their functions. All major systems will be explored including the skeletal, muscular, digestive, excretory, nervous, reproductive, respiratory, and circulatory systems. The course will include a dissection of a sheep heart, a sheep kidney, and a mink. Students are required to keep a written journal regarding the dissections and to complete several research lab reports. This course is designed for individuals who are seriously considering a career in one of the health professions.

431 – Environmental Science

Grade level: 11, 12

Credits: 5

Prerequisite: Biology and Chemistry

Environmental science is the study of the interaction of living and nonliving components of the environment with special emphasis on the impact of humans on these components. This course introduces students to ecology and public policy questions relating to the ecosystem. Environmental problems such as municipal waste disposal, hazardous and toxic waste treatment, contamination of food and water supplies, over population and atomic energy are explored. The scientific method is utilized in order to evaluate each issue objectively. Student work will include essays and projects.

433 – Forensic Science

Grade level: 11, 12

Credits: 5

Prerequisite: Biology and Chemistry

Forensic Science is the application of biological, chemical and physical science utilized in crime scene investigations and subsequent criminal proceedings. Major topics of study include physical evidence, crime scene investigation, fingerprinting, trace evidence analysis, toxicology, anthropology, pathology, DNA, serology, serial killers, forensic psychology, arson investigation, and criminalistics. Materials for the course will be presented in a variety of formats including lecture, labs, supplemental reading, discussions and instructional videos. Due to the nature of forensic science this course is very hands on and students will be expected to handle rigorous lab work among other course work that is given.

434 – Introduction to Sustainability

Grade level: 11, 12

Credits: 5

Prerequisite: Biology and Chemistry

Introduction to Sustainability provides students with an overview of the central concepts and ideas encompassed within this field. The science of sustainability deals with the interactions between natural and social systems: agriculture, energy production, waste, water and land, consumption, consumerism, risk, quality of life, nature and society. Students are presented with a framework and a set of core standards for recognizing and applying sustainability principles in today's world: respecting diversity in both nature and culture, improving equality within and across generations, and the economics of happiness and wellbeing. Key challenges and applications of the course are explored through international case studies and problem solving exercises.

438 – Engineering Principles I

Grade Level: 11, 12

Credits: 2.5

Prerequisites: Algebra and Geometry

This course is designed to give students an introductory view into the world of engineering professions. We will explore what an engineer does and how engineers have been involved in designing solutions to problems throughout history. Students will also be exposed to the questions of ethics within the engineering profession, and how these decisions, which can pertain to things such as efficiency and cost, affect the engineering design process. At the end of the semester, you will have the opportunity to work in a group on a small design project, to solve an engineering problem, putting what you have learned over the semester to use.

441 – Engineering Principles II

Grade Level: 11, 12

Credits: 2.5

Prerequisites: Engineering Principles I

This course is a continuation of Engineering Principles I, which will add greater depth and breadth to expand on the knowledge base that students have already acquired. Building on the foundation of Engineering Principles I, we will delve into additional case studies to learn more about the engineering design process in greater detail, and better analyze and learn from the steps involved in the engineering design method. Throughout the year, students will have opportunities to work in groups to analyze and solve mock engineering design problems. This course will also place a premium on looking into and developing the different types of communication skills that engineers must have to be successful in the workplace. Students will work both

on individual and group projects, where we will focus on technical writing presentation skills. This course will culminate with a more involved group design project, to solve a fun engineering problem, which will require students to draw from their knowledge and experiences from the full course to create a detailed design and analysis of their solution, as well as an in-depth presentation which will be given in class.

445 – Marine Biology

Grade level: 11, 12

Credits: 5

Prerequisite: Biology and Chemistry

Marine Biology is the study of life in the oceans. From microscopic plankton to the largest whales, this in-depth course covers all forms of life in the ocean. Students will also learn how all these organisms connect with each other in the marine biome, and what threats are currently facing these ecosystems. Materials for the course are presented through inquiry-based projects, dissections, presentations, and virtual video conferences with real life scientists currently in the field. A strong background in biology is preferred.

460 – Preparation for Careers in the Medical Professions

Grade Level: 11, 12

Credits: 5

Prerequisite: Anatomy or Anatomy and Physiology Honors

This course is a full year elective open to juniors and seniors who are seriously interested in pursuing a career in one of the medical professions, that is: Medicine, Osteopathic Medicine, Chiropractic Medicine, Podiatry, Optometry, Audiology, Nursing, Physician's Assistant, Pharmacy, Physical Therapy, Medical Technician and Occupational Therapy. This course will study the history and development of these professions, as well as, practical career guidance in helping a student come to a determination as to which one to pursue. This course will also delve into ethical and moral issue which help the student develop the compassionate character of a healer.

Social Studies

510 – World History

Grade Level: 9

Credits: 5

This course is a survey of world civilizations from their beginnings to contemporary times. The interdependence and interrelationship of civilizations are presented in a manner that provides an understanding of the events and geography that influenced people in different places at different times. The course concludes with the identification of some of the important issues that challenge the world today. Students enrolled in World History are introduced to persuasive and argumentative writing styles and will write a minimum of eight essays.

515 – World History Honors

Grade Level: 9

Credits: 5

This course is designed to challenge students to delve deeply into the study of the origins of our global society. By examining historical themes and events from early civilizations up to the present, students will develop an in-depth understanding of contemporary government, culture, economics and social issues. Students enrolled in World History Honors are introduced to persuasive and argumentative writing styles and will write a minimum of eight essays.

520 – U.S. History I

Grade Level: 10, 11

Credits: 5

Prerequisite: World History

This course offers a comprehensive survey of the main themes and concepts of American history from the French and Indian War to 1890. Within the framework of this survey, vivid details about American life provide for concrete learning experiences. Broad social, political and economic developments are presented with particular emphasis on the lives of the people and their interaction with world events. Students enrolled in U.S. History I will build on the writing skills developed in World History. Students will engage in research projects throughout the year.

522 – U.S. History I Honors

Grade Level: 10, 11

Credits: 5

Prerequisite: 88% in both World History Honors and English I Honors OR 90% in World History and English I

The U.S. History I Honors program is designed to provide students with an in depth approach to major topics in American history. The time period studied will be from the French and Indian War through Reconstruction. In addition to the text, students will read primary source documents as well as selections from the major political thinkers and authors of the eighteenth and nineteenth centuries. For each unit of study, students will submit essays demonstrating their ability to think critically about an issue after researching the topic in depth through outside sources. Students enrolled in U.S. History I Honors will build on the writing skills developed in World History. Students will engage in research projects throughout the year.

525 – Advanced Placement U.S. History I

Grade Level: 10, 11

Credits: 5

Prerequisite: 90% in both World History Honors and English I Honors

The Advanced Placement program in United States History I is designed to provide highly motivated students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in American history. This program begins with the discovery of America through Reconstruction and prepares students for intermediate college courses by making demands upon them equivalent to those of full-year introductory college course in history. This course helps students develop the skills necessary to arrive at informed judgments and conclusions based on a very focused study of the materials. Students are expected to present their ideas clearly and persuasively in both classroom discussions and writing.

530 – U.S. History II

Grade Level: 11, 12

Credits: 5

Prerequisite: U.S. History I

This survey course examines domestic political events as well as foreign affairs from the Gilded Age to contemporary times. Emphasis is placed on developing an understanding of the political, social, economic, religious, and international events that helped to shape American society. Special attention is given to understanding how the United States has developed into a major economic power in the twenty-first century. Incorporated into this course are specialized readings, documents, and maps that will enhance the students' appreciation of American society. In addition, students are encouraged to keep informed about current events that will be discussed in class. Students enrolled in this course will write persuasive, argumentative, critical thinking, and analytical essays. Students will engage in research projects throughout the year.

535 – U.S. History II Honors

Grade Level: 11, 12

Credits: 5

Prerequisite: 83% in AP U.S. History I OR 88% in U.S. History I Honors and 88% in English II Honors / English III Honors OR 90% in U.S. History I and 90% in English II / English III

The U.S. History II Honors program is designed to provide students with an in depth understanding of major topics in American history. The time period studied will be from the Progressive Era to the present. In addition to the text, students will read primary source documents as well as selections from the major political thinkers and authors of the twentieth century. For each unit of study, students will submit essays demonstrating their ability to think critically about an issue after researching the topic in depth through outside sources. Students enrolled in this course will write persuasive, argumentative, and analytical essays. Students will engage in research projects throughout the year.

531 – Modern World History

Grade Level: 11, 12

Credits: 5

Prerequisite: 80% in both World History and U.S. History

This course provides a comprehensive survey of the major themes and concepts in modern global history from European maritime expansion in the fifteenth century to the present day. Particular emphasis will be placed on the various ways non-Western states and societies will confront and respond to the challenge of the industrial and industrializing West. Students will be encouraged to critically examine and discuss the problems facing the modern world by engaging with primary sources and current events, culminating in a research project of their interest.

548 – U.S. History III

Grade Level: 11, 12

Credits: 5

This course offers a comprehensive survey of the main themes and concepts of American history from the beginning of the Cold War to present day. Topics will include the Korean War, the Civil Rights Movement, the Vietnam War, the War on Drugs, the War on Terror, 9/11 and the Housing Bubble. American popular culture will be examined throughout the period studied. Emphasis will be placed on developing an understanding of the political, social, economic, religious, and international events that helped shape modern American society. In addition, students will connect current events to historical topics through

regular study of periodicals and subsequent class discussion. Students enrolled in U.S. History III / Modern U.S. History will build on the writing skills developed in U.S. II. Students will engage in research projects throughout the year.

550 – Advanced Placement U.S. History II

Grade Level: 11, 12

Credits: 5

Prerequisite: 90% in U.S. I Honors OR 85% in AP U.S. I and 90% in English II Honors/English III Honors

The Advanced Placement program in United States History II is designed to provide highly motivated students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in American history. The program covers the Gilded Age to contemporary times and prepares students for intermediate college courses by making demands upon them equivalent to those of a full-year introductory college courses in history. This course helps students develop the skills necessary to arrive at informed judgments and conclusions based on a very focused study of the materials. Students are expected to present their ideas clearly and persuasively in both classroom discussions and writing. AP US History will prepare students for the Advanced Placement examination in the spring.

555 – Advanced Placement European History

Grade Level: 11, 12

Credits: 5

Prerequisite: An 80% in AP US History, 85% in US Honors, or 90% in US CP

The Advanced Placement European History program is designed to provide students with the analytical skills and content necessary to interpret and think critically about the major issues in European history. The program is the equivalent of a college European History course. Students will explore the time period of 1450 to the present with major emphasis placed on the Renaissance, Reformation, rise of nation states, enlightenment, revolution, Napoleonic age, rise of capitalism, imperialism, world wars, and the rise and fall of Communism. In addition to the text, students will submit essays demonstrating their ability to think critically about an issue after researching the topic in depth through outside sources. Students will be required to read the first two chapters of the text in advance of the class.

542 – Economics

Grade Level: 11, 12

Credits 2.5

Economics is the study of people and resources. This course explores labor, land, investments, money, income, production, taxes and government expenditures. Students will explore the measure of well-being and evaluate its impact on the rich and the poor. This is an introductory economics course. Some of the topics covered include scarcity and factors of production, the free market vs. centrally planned economies, supply vs. demand, market equilibrium, competition vs. monopolies, regulation vs. deregulation, business, labor, money, banking and finance. Students will participate in a Stock Market Simulation game.

552 – Advanced Placement Economics

Grade Level: 11, 12

Credits 5

Advanced Placement Economics consists of two semester courses taught within one academic year incorporating Microeconomics and Macroeconomics. Microeconomics will give students a thorough understanding of the principles of economics that apply to the functions of individual decision-makers, both consumers and producers, within the economic

system. Macroeconomics will give students a thorough understanding of the principles of economics that apply to a market-based economic system as a whole. Advanced Placement Economics will prepare students for both; the Advanced Placement Microeconomics examination and Macroeconomics examination in the spring.

☞ 541 – Political Science

Grade Level: 11, 12

Credits: 2.5

This course in Political Science is designed to establish the conviction in students that the form of government in the United States demands involvement. Democracy can endure only as long as its citizens are willing to make the sacrifice that a system of self-government demands. Emphasis is placed on how our government works in all its frustrating but marvelous complexity and on why it works the way it does, sometimes smoothly and sometimes haltingly. A major element of this class is legislation. Each student will have the opportunity to introduce their own bill in class. Students are expected to research and prepare for debate on their bill. Delegates may choose any bill topic they want, as long as it falls within the jurisdiction of their assigned committee. Each bill receives 30-45 minutes of debate in class.

☞ 538, 539 – Sociology

Grade Level: 11, 12

Credits: 2.5

Sociology is the scientific study of human social behavior and its origins, development, organizations, and institutions. This course examines human social activities and specifically various groups throughout history that have been or currently are discriminated against. Using sociology, students will speculate and investigate why prejudice and discrimination against these various groups exists. The goal of this course is to open students' minds to the value of diversity in our world today and to educate them about why and how prejudice and discrimination occur.

☞ 540, 543 – Psychology

Grade Level: 11, 12

Credits: 2.5

Psychology is the study of human behavior. This course will present a comprehensive study of the significant psychological concepts and findings of modern psychology. Topics discussed will include research methods, behavior, sensation and perception, stress management, learning, memory, cognition, motivation, emotion, development, personality, abnormal behavior, social behavior and individual behavior.

☞ 556 – Advanced Placement Psychology

Grade Level: 11, 12

Credits: 5

The Advanced Placement Psychology course is a full year course and an introduction to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Included is a consideration of the psychological facts, principles, and phenomena associated with each of the major sub fields within psychology. Students will learn about the ethics and methods psychologists use in their science and practice. Topics include history and approaches, research methods, biological basis of behavior, sensation and perception, states of consciousness, learning and cognition, motivation and emotion, developmental psychology, personality, testing and individual differences, abnormal psychology, treatment of psychological disorders, and social psychology. The aim of the course is to provide a learning experience equivalent to that

obtained in most college introductory psychology courses and will help the student prepare to take the Advanced Placement Psychology exam in the spring.

☞ 545, 547 – Criminal Justice

Grade Level: 11, 12

Credits: 2.5

Criminal Justice explores how justice in our country is impacted by crime and punishment. This course is designed to provide students with an understanding of our judicial system from local to state levels and to provide an understanding the role law enforcement plays in the judicial system. Students will appreciate how public safety relies on the prevention of criminal offenses through the deterrent influence of law enforcement and judicial intervention and sentencing. The emphasis will be on interpretation of the N.J. Criminal Justice Code - Title 2C.

☞ 554 – Advanced Placement World History

Grade Level: 11, 12

Credits: 5

Prerequisite: An 80% in AP US History, 85% in US Honors, or 90% in US CP

This course gives students the opportunity to analyze in-depth the processes which led to the creation of a truly global human community from c. 1200 to the present, as well as their consequences. Students will use the skills they have learned in prior social studies courses (analyzing primary and secondary sources, critical thinking, and historical writing) to investigate the past using the same tools historians employ. Major topics of study include human interactions with their environment, interactions between different cultures, the expansion and integration of economic systems, and transformation of states and societies as a consequence of these interactions. These themes will help each student make connections across historical eras and the major geographic regions of the globe: Africa, the Americas, Eurasia, and Oceania.

International Language

☞ 611 – French I

Grade Level: 9, 10, 11, 12

Credits: 5

French I will introduce the students to the fundamentals of the language and acquaints them with the culture of French speaking people. The students learn new vocabulary and grammatical structures which serve as a basis for intensive conversation practice. Through maximum usage of French in the classroom, the students have the opportunity to develop a reasonable degree of fluency in the language. Students will write emails, postcards, and short paragraphs in the target language. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

613 – Italian I

Grade Level: 9, 10, 11, 12

Credits: 5

Students are introduced to the basic grammatical structures of Italian as well as the phonetics and its corresponding orthography. Simple conversation and composition are encouraged. Cultural topics are explored including the geography and the customs of the people. Students will write emails, postcards, and short paragraphs in the target language. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

610 – Latin I

Grade Level: 9, 10, 11, 12

Credits: 5

This course is an introduction to the classical Language of Latin, its pronunciation, vocabulary, grammar and syntax. Students will learn the Latin roots of many English words and develop the ability to translate short passages from Latin into English. The course will also introduce students to the culture and history of the ancient Romans. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

612 – Spanish I

Grade Level: 9, 10, 11, 12

Credits: 5

This course is an introduction to the study of the Spanish language and culture, emphasizing pronunciation, basic grammatical structures, vocabulary, common idiomatic expressions and simple communication skills. Students learn the geography of Latin America and learn to appreciate its diverse cultures. The cultural content of the course includes the geography, history, customs and personalities in the history of Latin America and Spain. Students will write emails, postcards, and short paragraphs in the target language. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

615 – Spanish I Honors

Grade Level: 9, 10, 11, 12

Credits: 5

Prerequisite: Spanish placement test

This course is the honors level of Spanish I. It is a fast-paced program that focuses on accurate pronunciation, grammatical structures, vocabulary, idiomatic expressions, and communication skills. Students will also study the geography, history, and customs of Spanish-speaking peoples. Students will write emails, postcards, and short paragraphs in the target language. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills. Students will learn about culture through project based assignments and presentations.

621 – French II

Grade Level: 9, 10, 11, 12

Credits: 5

Prerequisite: French I or French placement test

In French II, the sounds and intonation of the language continue to receive careful attention but added emphasis is given to proficiency in writing. Through constant oral practice in the classroom, guided composition work and cultural studies, students have the opportunity to acquire a sound knowledge of the language and culture of France. Students will write letters and short essays in the target language. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

623 – Italian II

Grade Level: 9, 10, 11, 12

Credits: 5

Prerequisite: Italian I or Italian placement test

In Italian II, more advanced work is done in Italian grammatical study. Students will improve their composition as they continue to build their conversational skills. Cultural study focuses on such topics as the economy of Italy and its governmental operations. Students will write letters and short essays in the target language. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

620 – Latin II

Grade Level: 9, 10, 11, 12

Credits: 5

Prerequisite: Latin I or Latin placement test

This second year course continues to build on the work of Latin I. Students will be able to translate more difficult passages from Latin into English. They will be able to read portions of The Gallic Wars by Julius Caesar in the original Latin. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

622 – Spanish II

Grade Level: 9, 10, 11, 12

Credits: 5

Prerequisite: Spanish I or Spanish placement test

This course continues to strengthen oral communication, broaden grammatical concepts and hone reading and writing skills. Students will develop an appreciation for Hispanic culture and geography as topics are explored in greater detail. Reading expectations are increased. Students will write letters and short essays in the target language. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

☞ 625 – Spanish II Honors

Grade Level: 9, 10, 11, 12

Credits: 5

Prerequisite: 88% in Spanish I Honors or 90% in Spanish I

This is an honors level of Spanish 2. It is a fast paced course that includes extensive vocabulary study, reading comprehension development, and Hispanic cultural focus. Grammatical complexities such as the preterit and imperfect tenses are taught in addition to formal and informal commands. Students will write letters and short essays in the target language.

☞ 631 – French III Honors

Grade Level: 10, 11, 12

Credits: 5

French III Honors continues to emphasize correct pronunciation, intonation and vocabulary development. The primary objective at this level is the ability to speak and comprehend the spoken word, so significant attention is devoted to oral work. Reading skills are developed through the student's first encounter with original literature. The listening experience provided by the textbook is enhanced by oral reports and dramatization. Students will write letters and essays in reaction to in class material. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

☞ 633 – Italian III Honors

Grade Level: 10, 11, 12

Credits: 5

In this course the fine points of grammar are presented to the student with an emphasis on composition. Much more conversation in Italian takes place. Student is introduced to Italian literature and art while the history of Italy is studied in depth. Students will write letters and essays in reaction to in class material. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

☞ 630 – Latin III Honors

Grade Level: 10, 11, 12

Credits: 5

In the third year of Latin emphasis is placed on very advanced grammatical constructions, specialized vocabulary and idiomatic expressions. Students engage in more original writing, and read prose and poetry by classical authors. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

☞ 632 – Spanish III

Grade Level: 10, 11, 12

Credits: 5

Spanish III aims to prepare students for college level work. Grammatical structures are systematically reviewed with more complex constructions receiving attention according to their functional importance in speaking, understanding and writing situations. Facility in the use of fundamental vocabulary and structures permits a wide variety of oral activities. Emphasis is placed on reading while Spanish grammatical complexities, such as preterit versus imperfect, and indicative versus

subjunctive continue to receive attention. Students will write letters and essays in reaction to in class material. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

☞ 635 – Spanish III Honors

Grade Level: 10, 11, 12

Credits: 5

Prerequisite: 88% average in Spanish II Honors or 90% in Spanish II

This fast paced course emphasizes reading and speaking skills that will prepare students for the AP Spanish. Students will master new vocabulary lists. Grammatical complexities such as the use of the preterit and imperfect tenses will continue to receive attention while introducing new tenses including the present subjunctive and imperfect subjunctive moods. Written composition will include formal and informal essays while reading skills will be developed through selected Hispanic literature and advanced through creative speaking presentations.

☞ 647 – Spanish IV

Grade Level: 11, 12

Credits: 5

Prerequisite: Spanish III

This course requires students to apply elements of language skills from all previously studied courses. Accurate formation and use of correct verb tenses and increased adaptation of new vocabulary will be featured in striving to develop creative speaking and writing styles. The development of reading and comprehension skills will highlight selective pieces of literature and students will demonstrate analysis and synthesis of each work in writing and speaking experiences. Course is taught in a high degree in the target language to afford the opportunity to increase student listening acuity.

☞ 641 – French IV Honors

Grade Level: 11, 12

Credits: 5

Prerequisite: 88% in French III Honors

French IV Honors offers individualized attention based on need. While increased requirements are set for grammar skills and literature, the opportunity to further perfect one's awareness of syntax for oral and written expression is emphasized. Literature also provides insight into French history and geography and serves as the basis for composition. Students will write research papers and essays as well as letters and short response papers. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

☞ 645 – Italian IV Honors

Grade Level: 11, 12

Credits: 5

Prerequisite: 88% in Italian III Honors

In Italian IV Honors, conversation and writing skills are further developed. Grammar and vocabulary are studied in depth. Different specialized vocabularies are presented, including commercial terminology. The students continue to study Italian art and literature while they are introduced to Italian classical music, including opera. The study of Italian history is continued and readings focus on contemporary Italian affairs. Students will write research papers and essays as well as letters and short

response papers. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

☞ 640 – Latin IV Honors

Grade Level: 11, 12

Credits: 5

Prerequisite: 88% in Latin III Honors

Students study Roman history from contemporary account and literary selections, both adapted and in the original, from the end of the republic through the fall of the Western Roman Empire in 476 A.D. Selected readings and writing projects in Latin that will require the implementation of all previous language skills.

☞ 643 – Spanish IV Honors

Grade Level: 11, 12

Credits: 5

Prerequisite: 88% in Spanish III Honors or 90% in Spanish III

This is an intensive course in which students will make all appropriate applications in grammar and vocabulary acquisition to further expand foreign language learning. Emphasis will be placed on development of creative and expressive style in speaking and writing in detail and accuracy. Proficiency will be demonstrated through scope and depth of thematic writings and speaking presentations. In order to increase listening acuity, a high percentage of instruction will be presented in the target language.

☞ 654 – Advanced Placement French Language and Culture

Grade Level: 11, 12

Credits: 5

Prerequisite: 90% in French III Honors

This course emphasizes the use of French for active communication. It stresses oral skills, composition, and grammar. Students will concentrate on comprehending spoken French, writing expository passages, and expressing ideas orally. This course cultivates the acquisition of vocabulary and structures to allow for the reading of newspaper and magazine articles as well as modern French literature. Students will write research papers and essays as well as letters and short response papers. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

☞ 653 – Advanced Placement Italian Language and Culture

Grade Level: 11, 12

Credits: 5

Prerequisite: 90% in Italian III Honors

This course emphasizes the use of Italian for active communication. It stresses oral skills, composition, and grammar. Students will concentrate on comprehending spoken Italian, writing expository passages and expressing ideas orally. This course cultivates the acquisition of vocabulary and a grasp of structure to allow the reading of newspaper and magazine articles as well as modern Italian literature. Students will write research papers and essays as well as letters and short response papers. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

🏷️ 650 – Advanced Placement Spanish Language and Culture

Grade Level: 11, 12

Credits: 5

Prerequisite: 90% in Spanish III Honors or Spanish IV Honors

This course prepares students for the AP Spanish Language and Culture exam. It emphasizes the use of Spanish in effective communication by stressing verbal fluidity and composition. Students will write expository essays and express ideas orally that reflect thorough understanding of correct grammatical concepts and accurate vocabulary. Culture will be emphasized thematically that will include a wide range of experiences citing art, contemporary life, historic and current personalities, and community life.

🏷️ 651 – Advanced Placement Spanish Literature and Culture

Grade Level: 12

Credits: 5

Prerequisite: 90% in Spanish IV Honors or 85% in Advanced Placement Spanish Language

This course covers selected works of Spanish and Latin- American writers. Students will analyze Spanish literature ranging from the medieval period to post-civil war era, and Latin American literature from the colonial to post boom generation. Students will actively discuss literary topics as well as read and critically analyze the form and content of these works orally and in writing using appropriate terminology. Students will write research papers and essays as well as letters and short response papers. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

🏷️ 690 – Introduction to Japanese Language and Culture

Grade Level: 11, 12

Credits: 2.5

Prerequisite: For Non-Native Speaking Students

(Course fulfills Social Studies elective requirement)

This elective course will introduce students to the basics of elementary Japanese. The course also focuses on the economic, artistic, social and educational way of life in modern Japan, while recalling the wonderful history, culture and traditions of the Japanese people. It is intended to expose the student to the similarities and differences of Japanese language, culture, history and art when compared to our own. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

🏷️ 695 – Introduction to Mandarin Chinese and Culture

Grade Level: 11, 12

Credits: 2.5

Prerequisite: For Non-Native Speaking Students

(Course fulfills Social Studies elective requirement)

Students will be introduced to the basics of Mandarin Chinese. They will also learn about the economic, artistic, social and educational way of life in modern China while exploring the wonderful history, culture and traditions of the Chinese people. It is intended to expose students to the similarities and differences of the Chinese language, culture, history and art when

compared to our own. Student work will include a significant culmination project. Text supported audio materials will be utilized to engage the student in active speaking and listening activities to support development and linguistic skills.

☞ 675 – Introduction to Arabic Language and Culture

Grade Level: 11, 12

Credits: 2.5

Prerequisite: For Non-Native Speaking Students

(Course fulfills Social Studies elective requirement)

This elective course is an introduction to Arabic language and culture. On completion of this course, students will have gained basic knowledge of the language and the theories and methods of studying culture. Moreover the course explores the history of development of Arabic culture from the classical period until the present.

Computer Technology

☞ 720 – Computer Applications

Grade Level: 11, 12

Credits: 5

Computer Applications explores some of the most popular software applications in use today such as: Word, Publisher, PowerPoint and Excel. Projects are designed around real life needs and interests. They include creating brochures, flyers, business cards, resumes, new business marketing plans, commercial advertisements, photo albums, and books. Other topics covered include research tools, plagiarism, and comparison shopping. Students will learn how to create and manipulate data. They will also learn the fundamentals of cartoon animation.

☞ 730, 738 – Introduction to Computer Technology

Grade Level: 11, 12

Credits: 2.5

Computer technology has changed the landscape of the world forever. It is a very fast-paced industry with significant human impact. This fundamental course provides an overview of computer technology and its integration into modern society. It explores significant milestones regarding computers and how computer technology has evolved over the years. Topics covered include computer history, computer hardware, operating systems, networking, the Internet, popular software applications, electronic communications, and coding. Student work will include hands-on interactive projects with a Raspberry Pi, a credit card sized computer where the student's imagination is the only limitation.

☞ 731, 737 – Computer Programming I

Grade Level: 11, 12

Credits: 2.5

Prerequisite: Algebra 1

This course covers structured programming techniques using Python. Course objectives include problem solving, data representation, logical operations, repetition structures, functions, arrays, and classes. Students will learn to plan, program, and run Python programs to solve problems. The course will provide a solid foundation for further study in the field of computer science with students developing their computational, procedural, and problem-solving skills. The course will include a number of different projects during which students will design and develop working applications. These projects will range from simple

utilitarian functions, such as databases and calculation, to interactive programs, such as simple games and other more practical applications.

732 – Computer Programming II

Grade Level: 11, 12

Credits 2.5

Prerequisite: Computer Programming I

This course will build upon the concepts and programming techniques presented in the Computer Programming I course. The students will be introduced to the Object Oriented Visual Basic Programming language and development tools associated with it, focusing on user interface objects (forms and controls), object properties, procedures, and language elements. This course will involve a number of different projects during which students will design and develop working applications. These projects will range from simple utilitarian functions, such as databases and calculation, to interactive programs, such as simple games and other more practical applications.

733, 736 – HTML & Java Script Programming for Web Pages

Grade Level: 11, 12

Credits: 2.5

This course teaches the basic programming concepts behind the creation of Web pages. Students will begin with the relatively easy to learn Hyper Text Markup Language, then advance to Java Script source code. The course will then move on to Web page design techniques and the use of NotePad+.

Business

740 – Accounting

Grade Level: 11, 12

Credits: 2.5

This course covers the basic principles, concepts and procedures of accounting and their applications in handling various types of business records. Topics will cover types of business ownership, the Accounting Equation, T accounts, analyzing transactions, journalizing, and standard bookkeeping. Overall business simulation is achieved through problems and projects employing standard business forms, business procedures, and accounting terminology. There are 2 major projects affiliated with the class: First is participation in a Stock Market Simulation game. The students are given a fictional \$100,000 to invest in the Stock Market. Students compete against students from schools around the state and against students in their own school. Second, the students will complete a comprehensive project in which they take all of a company's receipts for a month and analyze, interpret, and record all of the transactions. Students will formulate the monthly reports to show the firm's financial position.

741, 744 – Introduction to Business

Grade Level: 11, 12

Credits: 2.5

This course is designed to introduce students to the world of business. Topics presented will include marketing, finance, management, and business ethics. The course will provide students with a basic understanding of the history of business in

the United States and an understanding of the current global perspective on business. The course will teach students the skills and knowledge needed to be successful in business. There are 2 major projects affiliated with the class: First is participation in a Stock Market Simulation game. The students are given a fictional \$100,000 to invest in the Stock Market. Students compete against students from schools around the state and against students in their own school. Second, students are required to invent a new product. Students will design the product, come up with a prototype, write a business plan, and market the product. The culmination of the project is the students making a 10 minute presentation in a press conference style to the class.

742 – Business Law/Ethics

Grade Level: 11, 12

Credits: 2.5

This course will be divided between a basic understanding of our legal environment, including the criminal, civil and regulatory environments under which businesses operate, and an introduction to ethical (moral) decision-making on issues that individuals, businesses and governments may face, such as employment (discrimination, diversity), technology, the environment and entertainment. Student work will include essays, projects, and presentations.

743 – Introduction to Marketing and Public Relations

Grade Level: 11, 12

Credits: 2.5

This course is designed to introduce students to the exciting and evolving field of marketing. Students will learn how successful corporations attract customers and build customer interest and loyalty. Through a series of lectures, small group projects, brainstorming sessions, multimedia presentations, and other hands-on activities, students will explore various components of the marketing mix, including: the “P’s” of marketing (product, place, price, and promotion), branding, advertising, public relations, persuasion techniques, internet/social media marketing, personal selling, and marketing ethics. Students will also learn how to effectively market themselves by creating professional cover letters and résumés and practicing their interviewing and public speaking skills. Students who enroll in this course will be expected to work collaboratively in groups and present their ideas in front of the class.

745 – Introduction to Careers in Legal Professions

Grade Level: 11, 12

Credits: 2.5

This course explores the foundation, organization and structure of the American legal system, and examines the varying roles of lawyers in our society. Students will be provided with an introduction to law school expectations, as well as a general familiarity with traditional (attorney, judge, mediator) and nontraditional (lobbyist, advocate, private and governmental adviser) professions through readings, discussions and guest lectures.

746 – Introduction to Sports Administration and Marketing

Grade Level: 11, 12

Credits: 2.5

This is an introductory management and marketing course. Course content will be a combination of lectures, assigned readings, videos, field exercises, and special projects. This course is designed for students to study sports marketing theories (the business of promoting and selling sports products or services, including market research and advertising) and practical

applications and principles by learning about specific marketing phenomenon as it relates to sport. There is no prerequisite to this course.

748 – Introduction to Personal Finance

Grade Level: 11, 12

Credits: 2.5

This course is designed to prepare students for the myriad of financial decisions they will encounter throughout their lifetime. The course will follow the outline of the 2015 National Standards in Personal Finance Education. These standards include applying strategies to monitor income and expenses, develop a plan to control and manage credit and debt, create a blueprint to maximize personal income potential, analyze investment opportunities, identify risks and institute effective risk-management strategies, and apply reliable information and systematic decision making to all personal financial decisions.

Fine/Performing Arts

800, 801 – Art Appreciation

Grade Level: 11, 12

Credits: 2.5

This elective will focus the students' attention on their appreciation and understanding of various artists, works of art, and artistic styles. Students' analysis of such work will encourage closer inspection of the work and will require them to use perceptive, interpretative and critical thinking skills. Varied activities will provide immediate "hands-on" application of the key concepts taught.

810 – Basic Elements of Design

Grade Level: 11, 12

Credits: 5

This elective uses the fundamental principles and elements of design as a guide for a "hands on" studio. The class presents the elements of design, such as line, shape, form, value, texture, space and color, in basic, uncomplicated projects. Students will also learn design terminology.

811 – Drawing and Composition I

Grade Level: 11, 12

Credits: 5

This elective will provide drawing students with direction to turn general basic drawing skills into personal expressions. The students will experiment with new directions, styles, and media as an integral part of their learning experience. Experimentation, craftsmanship, content, and presentation will be equally stressed as important elements of the creative process, and knowledge of the principles and elements of art will be recognized as part of their overall grades. This class is recommended for those who may be interested in pursuing a career in the fine arts. It is a prerequisite for Advanced Drawing and Painting.

820 – Advanced Drawing and Painting

Grade Level: 11, 12

Credits: 5

Prerequisite: Basic Elements of Design or Drawing & Composition

This elective combines aesthetics, criticism, and art history content with studio experiences that emphasize a comprehensive approach to the study of drawing and painting. The first half of the year stresses linear perspective, foreshortening, a study of the human form, imitational, formal, and emotional drawings. The second semester transfers the ideas presented to the process of painting, thereby allowing the students to express their creativity while developing an understanding of the character of painting. This course is a prerequisite for Advanced Studio Honors.

830 – Advanced Studio Honors I, II

Grade Level: 11, 12

Credits: 6

Prerequisite: Advanced Drawing and Painting

This elective is a contract-based studio art class geared toward the serious art student. Instructions on methods and techniques involved in the completion of contract work are given individually according to student need. The students are required to complete twenty (20) projects in the school year (five projects per marking period). Students are also responsible for assignments to be completed outside of class time. They are required to keep a hardbound sketchbook in which they must complete five (5) of their own entries each marking quarter along with the assigned entries given. Once enrolled in this class, the students also take on the responsibility of participating in the Portfolio Development class.

840 – Computer Graphics

Grade Level: 11, 12

Credits: 5

(Course fulfills Fine Arts or Computer Requirement)

This graphics course allows beginners to learn the fundamental concepts and features of Photoshop, while advanced students learn more sophisticated features of the program. Tips and techniques are interjected throughout the course so images can be professionally transferred to the web. Step-by-step instructions are given for each project, which includes the student's study and exploration of his own work utilizing the elements demonstrated. Projects include cropping and retouching photos, using the layers palette, creating a mask and applying filters, and creating a digital photo album.

843, 845 – Basic Photography

Grade Level: 11, 12

Credits: 2.5

Prerequisites: A digital camera is recommended, but not required.

(This course fulfills the Computer requirement.)

This course teaches the basic fundamentals of black and white and color photography including composition, exposure, and lighting. Students will use a variety of media to produce a photographic portfolio. Approximately four major projects will be assigned plus written critiques and reports.

846 – Advanced Photography

Grade Level: 11, 12

Credits: 2.5

Prerequisites: A digital camera is recommended, but not required.
(This course fulfills the Computer requirement.)

This course is a continuation of Basic Photography with more in-depth work in alternative processes and digital imaging. Students will learn studio lighting techniques and focus on landscape, still life and portrait photography. Students will also explore the works of historical and contemporary photographers. A portfolio is created and handed in at the end of the semester for a final grade.

870 – Portfolio Development

Grade Level: 11, 12

Credits: 5

Prerequisite: Teacher approval

For students interested in creating an artwork portfolio this is an independent study course that is offered specifically for students interested in pursuing the study of Art in their undergraduate studies. Students will create personal portfolios, including a slide portfolio, and will utilize a variety of mediums. This course can be completed over the course of one or two years depending on the student's commitment and self-motivation. Credit will only be given at the completion and preview of the entire portfolio. Students looking to major in Art are encouraged to take our AP Studio Art class. However, if there are scheduling conflicts based on a student's course load, Portfolio Development would be the next best option.

875 – Advanced Placement Art History

Grade Level: 11, 12

Credits: 5

Students will study artwork throughout civilizations as a visual and object-based cultural history. The art studied includes sculpture, architecture, painting and other art forms. These will act as primary sources for interpreting world history, which will only serve to enhance previous or concurrent text-based historical courses. The history of art further requires the critical analysis and interpretation of written texts to help document and illuminate the contexts - social, economic, political, religious— in which artifacts are produced and used. This course will serve as an interdisciplinary class, which will augment all other Humanities based courses.

880 – Advanced Placement Studio Art

Grade Level: 12

Credits: 5

Prerequisite: High level proficiency in drawing

This course will accommodate students who are interested in completing an AP Drawing Portfolio. Through direct teacher instruction, emphasis will be placed on the production of quality pieces of art. Breadth, concentration and quality will be addressed in the portfolio. Students will be encouraged to develop mastery of concept, composition, and execution of their personal ideas and themes. They will also develop an appreciation that art is an ongoing process that uses informed and critical decision making to determine outcomes. The end product of the course will be a comprehensive portfolio that addresses each of these issues.

815, 817 – Introduction to Video Production

Grade Level: 11, 12

Credits: 2.5

(Course Fulfills Fine Arts or Computer Requirement)

Introduction to Video Production is designed as a beginner's course in Video Production. The class will focus on various pre-production, production and post-production techniques. Students will learn all terms associated with video production. Students will develop skills in video production using the technologies of audio-video equipment and professional computer-based non-linear editing software. The production facility features both Avid Media Composer as well as Final Cut Pro the two most globally used editing software. These are implemented to produce digital media projects for all areas of everyday life. Principles of video basics, Digital Video technology, the development and creative process, editing, production, effects and presentation are stressed.

816 – Advanced Video Production

Grade Level: 11, 12

Credits: 2.5

Prerequisite: Introduction to Video Production

(Course fulfills Fine Arts or Computer Requirement)

Advance Video Production is for students who have successfully completed Intro to Video Production. This is an advanced course and is intended for students who wish to pursue a career in media arts or communications. Students will learn advanced production techniques in editing, studio production, lighting, audio, and multi-image production. Such topics and techniques as 3D Television, aesthetics, script writing, and cg effects will be covered. Strong emphasis on postproduction techniques such as DVD authoring, Blue-ray production, Adobe After Effects, and Avid FX. Advanced project work will commence immediately into the semester. Extra lab hours may be needed to attain the highest possible grade.

841 – Voice

Grade Level: 11, 12

Credits: 2.5

This elective is an introduction to the basic elements and techniques of vocal performance. Throughout the course, students will learn the beginning fundamentals of singing and breathing techniques. This course is designed to help students develop vocal ability by incorporating breathing exercises, warm-ups, diction, and sight-reading.

844 – Chamber Strings Ensemble

Grade Level: 11, 12

Credits: 2.5

Grade Level: 11, 12

Credits: 2.5

Prerequisite: Intermediate level proficiency

This class is open to all students who play violin, viola, cello or double bass. This performance and skill-based class will include small ensemble playing and advanced skill technique. This group will perform in the Christmas and Spring concerts, graduation, and in other school and community activities.

847 – Basic Piano Keyboard

Grade Level: 11, 12

Credits: 2.5

This is an introductory course in the fundamentals of piano keyboard performance. Classroom topics include the study of musical notation and symbols, the performance of simple melodies, standard scales, and chord progressions.

848 – Intermediate Piano Keyboard

Grade Level: 11, 12

Credits: 2.5

Prerequisite: Basic Piano Keyboard or audition

This Intermediate Piano Keyboard course is offered as a continuation of the Basic Piano Keyboard course. Emphasis will be placed on the study of piano literature within each period of music history (Baroque, Classical, Romantic and Twentieth Century). All students in Intermediate Piano Keyboard will build upon the skills attained in Basic Piano Keyboard.

849 – Basic Guitar

Grade Level: 11, 12

Credits: 2.5

This is an introductory course in the fundamentals of guitar performance. Classroom topics include the study of musical notation and symbols, the performance of simple melodies, standard scales, and chord progressions. Students must have their own acoustic guitar for classroom instruction and home practice.

850 – Concert Band

Grade Level: 9, 10, 11, 12

Credits: 5

This course in instrumental music is open to all students with an interest in playing in the school concert band. It is designed for students with some prior instrumental experience. Students will be expected to purchase or lease their own musical instruments and to perform in concert in both the fall and the spring. Larger wind, percussion, and mallet instruments will be provided by the school.

851 – Rock/Jazz Instrumental Workshop

Grade Level: 9, 10, 11, 12

Credits: 2.5

This course in instrumental music is open to all students with an interest in playing in a smaller rock/jazz ensemble. It is designed for students who play or seek to play guitar (electric or acoustic), bass or percussion (drum set); with or without prior experience. Guitar and bass students will be expected to purchase or lease their own musical instruments and to perform in concerts in both the fall and spring semesters. Students are required to write a paper analyzing the different style periods of Rock.

852 – Concert Choir

Grade Level: 9, 10, 11, 12

Credits: 2.5

This course in choral singing is open to all students who like to sing in groups. It is performance based, with a concert expected in both the fall and spring. Students do not need to have any prior experience in vocal music for this course.

853 – Music Appreciation/Theory

Grade Level: 10, 11, 12

Credits: 2.5

This elective includes theory, classical music, and the history of jazz. The first half of the year deals with the basic fundamentals of music: rhythm, scales, and simple chord construction. The second semester explores the history of jazz in America and the classical masters: Bach, Beethoven, and Brahms. Students are required to write a compare and contrast paper on music from different style periods.

854 – Music Performance: Independent Study

Grade Level: 9, 10, 11, 12

Credits: 1.25

Prerequisite: Permission of instructor

This course is an opportunity for students to have private instruction three periods per cycle on their desired instrument. Beginner to intermediate levels are offered in string, woodwind, brass and percussion instruments, as well as all levels in voice and piano. Students will be expected to practice their instrument between meetings.

855 – Dance & Theater for Emerging Performing Artists (Dance I)

Grade Level: 9, 10, 11, 12

Credits: 2.5

Introduction to dance as an art form explores basic movement skills and looks at the history of dance from lineage based society through the Middle Ages and the Renaissance. Students will learn basic dance terms. This class has both academic and dance performance components. Students will experience written and performance-based assessments. Students will have a multifaceted year-end project in which they will be assessed on the written vision, oral presentation, and dance demonstration. The class will perform in two major concerts during the year.

856 – Dance Performance (Dance II)

Grade Level: 9, 10, 11, 12

Credits: 2.5

Prerequisite: Dance I or Permission of instructor

Dance Performance II is a continuation of Dance I starting with the Golden Age of Ballet and examining dance in America during the 19th century, including modern dance and ballet as we know it today. Students will learn applicable dance terms. This class has both academic and dance performance components. Students will experience written and performance-based assessments. Students will have a multifaceted year-end project in which they will be assessed on the written vision, oral presentation, and dance demonstration. The class will perform in two major concerts during the year.

857 – Dance Performance (Dance III)

Grade Level: 10, 11, 12

Credits: 2.5

Prerequisite: Dance II or permission of instructor

This course explores the world of choreography – how to create a dance. Original choreography from the class will be featured in the two mandatory performances of the dance program. This class has both academic and dance performance components. Students will experience written and performance-based assessments. Students will have a multifaceted year-end project in which they will be assessed on the written vision, oral presentation, and dance demonstration. The class will perform in two major concerts during the year.

861 – Band / Lunch (Meets 3 of 6 days all year; ½ lunch / ½ Band)

Grade Level: 9, 10

Credits: 1.25

This course in instrumental music is open to all students with an interest in playing in the school concert band. It is designed for students with some prior instrumental experience. Students will be expected to purchase or lease their own musical instruments and to perform in concert in both the fall and the spring. Larger wind, percussion, and mallet instruments will be provided by the school.

862 – Choir / Lunch (Meets 3 of 6 days all year; ½ lunch / ½ Choir)

Grade Level: 9, 10

Credits: 1.25

This course in choral singing is open to all students who like to sing in groups. It is performance based, with a concert expected in both the fall and spring. Students do not need to have any prior experience in vocal music for this course.

864 – Music Independent Study / Lunch (Meets 3 of 6 days all year; ½ lunch / ½ Independent Study)

Grade Level: 9, 10

Credits: 1.25

This course is an opportunity for students to have private instruction three periods per cycle on their desired instrument. Beginner to intermediate levels are offered in string, woodwind, brass and percussion instruments, as well as all levels in voice and piano. Students will be expected to practice their instrument between meetings.

Physical Education/Health

☞ 910 – Physical Education I

Credits: 2

☞ 911 – Health I

Credits: 1

Grade Level: 9

Physical Education at this grade level is designed to introduce and develop basic skill techniques for a variety of different activities and foster an awareness of game concepts. Although the emphasis is on team related activities such as soccer, team handball, volleyball, and softball, individualized activities such as Yoga and fitness testing are also an integral part of the program. Health education at this grade level presents a course that focuses on growth patterns and personality development, general information on substance abuse and fitness, and nutritional awareness, including eating disorders. Students will be required to write essays connecting classroom topics to current health trends.

☞ 920 – Physical Education II

Credits: 2

☞ 921 – Driver Education

Credits: 1

Grade Level: 10

Physical Education at this level is designed for all students to develop both skills and techniques of various sports. All units will include rules and strategies for greater appreciation and understanding of each sport. Students will participate in the following individual and team sports: Flag Football, Basketball, Aerobics, Ultimate Frisbee, Fitness Walking, Volleyball, Tennis and Softball. The classroom phase of Driver's Education covers a wide variety of topics related to the driving experience and prepares students for the State test. All students take the NJ State Drivers Test at the conclusion of the course. Students will be required to write essays connecting classroom topics to the everyday driving experience.

☞ 950 – Physical Conditioning and Athletic Performance

Grade Level: 11, 12

Credits: 2.5

This semester course is designed to teach students techniques to improve their level of physical fitness and enhance their performance in various sports. The class exposes students to scientific principles of physical conditioning followed by personal fitness trainers; educates students in how to set up conditioning programs; develops an understanding of total fitness including strength, endurance, agility, speed, and flexibility; and increases awareness of procedures to prevent and treat athletic injuries.

☞ 533 – Sports and Society

Grade Level: 11, 12

Credits: 2.5

This course will focus on the evolving role of sports in American society. Students will examine the history of sports and its relationship with race, gender, economics & politics in the United States. Additional topics will include: pressures of sports from adolescence through college, supplement & drug abuse, violence in sports, and exploring sport-related careers. Students will also develop skills in historical research, analysis, and interpretation. Students will be expected to participate in a variety

of activities including: weekly discussions about required reading and current events, field trips, research projects, and group activities.

951 – Intro to Athletic Training and Sports Medicine

Grade Level: 11, 12

Credits: 2.5

The purpose of this class is to allow students to gain insight into athletic training and other aspects within the sports medicine field. This is an exciting course for any student interested in pursuing a career in a health related field. Students will gain a basic knowledge of human anatomy and human physiology. Moreover, students will learn the everyday functions of the athletic training room and role of an athletic trainer.

952 – Intro to Physical Therapy

Grade Level: 11, 12

Credits: 2.5

This course introduces the student to the profession of physical therapy and patient care including the history and development, philosophy, purposes, and legal and ethical aspects of physical therapy. Topics include the development of health care systems, evolution of physical therapist practice, health professions education, communication skills, patient rights and responsibilities. The role of the physical therapist assistant is defined, and the relationship of physical therapy to other health services is explored.