

Advanced Placement/College Course Booklet

2020 - 2021

Advanced Placement and College Level Course Offerings by Department for 2020/21

Mathematics:

AP Calculus AB
AP Calculus BC
AP Statistics

English:

AP English Language and Composition
AP English Literature & Composition
Presentational Speaking (SUPA)*
Practices of Academic Writing (SUPA)
Study in Dramatic Literature (Adelphi)

Art:

AP Studio Art
AP Art History

Technology:

AP Computer Science Principles

Science:

AP Biology
AP Environmental Science
AP Physics I
AP Physics II
AP Chemistry

Environmental Science (SUNY)**
Forensic Science (SUNY)**
Science Research (SUNY)**

Social Studies:

AP European History
AP World History
AP US History
AP US Government
Psychology (SUPA/ AP)*
Criminal Justice (SUNY)

World Languages:

Spanish Language AP
Intermediate Spanish (SUPA)*
Intermediate French (SUPA)*
Italian (SUPA)*
Latin (SUPA)

* SUPA = Syracuse University Project Advance

** SUNY = State University of New York

Open Access Does Not Apply to Dual Enrollment Courses (SUNY,SUPA)

Course Descriptions in Art

ADVANCED PLACEMENT ART HISTORY

1 Credit

Prerequisite: None

Grades 10, 11, 12

Advanced Placement Art History is a college level course that explores such topics as the nature of art, its uses, its meanings, art making, and responses to art. Through investigation of diverse artistic traditions of cultures from prehistory to the present, the course fosters an in-depth and holistic understanding of the history of art from a global perspective. Students learn to apply skills of visual, contextual, and comparative analysis to engage with a variety of art forms, including 2-dimensional media, 3-dimensional media, and architecture. Students will construct understanding of individual works and interconnections of art-making processes and products throughout history.

No prior exposure to art or art history is required. Students who have been successful in humanities courses, such as history and literature, or in studio art courses are especially encouraged to enroll since those experiences will likely support and enrich the context of the art history course. All students will take the College Board Advanced Placement Art History exam in May.

ADVANCED ART/ADVANCED PLACEMENT STUDIO ART (APSA)

1 Credit

Prerequisite: Studio in Art and Studio in Drawing and Painting

This class may be taken as a 1 or 2 year plan of study. Advanced Placement Studio Art/Advanced Art enables the highly motivated student to perform at college level and receive college credit while still in high school. The APSA program is a portfolio based exam rather than a written exam. APSA is designed for students who are seriously interested in producing a wide variety of 2-D art. AP portfolio work can include any combination of traditional drawings, paintings, collages, mixed media, digital images and/or photography. In addition to regular class time, students will need to work extra or independently to complete their portfolio requirements. Class trips to galleries and/or museums will be planned during the school year to broaden the student's creation and connection to the arts. Assessment for the AP program is portfolio based using criteria from the AP College Board for Both Advanced Art and APSA. Students use a national standard for analyzing, evaluating and assessing their art work. Please know the demands and expectations for students are more challenging than a typical high school art class. Portfolio work must reflect first year college-level standards. It is highly recommended that students who are interested in AP Studio Art take Advanced Art (pre AP) and AP Studio Art to begin the two year portfolio process. All students must complete requirements for the AP Studio Art Portfolio.

Course Descriptions in English

ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION 11

Grade 11

1 Credit (full-year course)

This course is designed for highly motivated juniors of superior ability who love reading and writing in a variety of forms. It is the equivalent of a freshman college course in composition. Students will learn to understand complex texts and write with sophistication, maturity, and an awareness of audience and purpose. They will carefully read primary and secondary sources and synthesize that material into their own pieces. Students will study American literature – both fiction and non-fiction, poetry and prose – to understand the rhetorical and linguistic choices authors make and apply these in their own compositions. Students take the state mandated Regents Examination in English Language Arts (Common Core) in June. All students must also take the College Board Advanced Placement Examination in English Language and Composition in May. A special reading assignment is given for the summer prior to the course. This course will prepare students for portions of the SAT Subject Test exam in Literature.

Link to College Board for AP Language: <https://apstudent.collegeboard.org/apcourse/ap-english-language-and-composition>

ADVANCED PLACEMENT (AP) ENGLISH LITERATURE AND COMPOSITION 12
1 Credit (full-year college-level course)

This course is designed for highly motivated seniors of superior ability who love literature. The course is the equivalent of a freshman college course in English composition and literature. Its specific objectives are to develop an emotional as well as intellectual response to many kinds of literature; to learn the basic techniques which the best writers have used to communicate their ideas and emotions; and to develop skills in literary interpretation, writing, speaking, and collaborative learning. Emphasis is on close reading of texts rather than on surveying a body of literature. All students must take the College Board Advanced Placement Examination in English Literature and Composition in May. College-level papers are required throughout the course. A special reading assignment is given for the summer prior to the course. Students will also complete a senior project. Link to College Board for AP Literature: <https://apstudent.collegeboard.org/apcourse/ap-english-literature-andcomposition>

A STUDY IN DRAMATIC LITERATURE (ADELPHI UNIVERSITY) ENGLISH (0122) 301
1 Credit (full-year college-level course)

This college-level dual enrollment course focuses on playwrights of the modern period, such as Ibsen, Shaw, Brecht, Chekhov, and O'Neill, with some study of contemporary playwrights whose works reveal the influence of their modern predecessors. This is an advanced English course (which can earn students 3 college credits through Adelphi University) for 12th-grade students that focuses on modern literature that is written for performance. This class will investigate elements of dramatic literature and the various forms of drama that have evolved from modern realism to comedy of manners to theater of the absurd, to farce. Students will focus on the exploration of drama, humor, gender and identity through various forms of modern theater. Additionally, dramatic literature will be studied comparatively within the fields of non-fiction, theater history, theater production, and cinema. This course will fulfill the English 12 requirement. Students may earn 3 college credits through Adelphi University by taking this course as a 12th-grade English class. While there is no formal entrance criteria, students are advised that this is a college-level class with appropriately rigorous expectations. The approximate cost for the class is approximately \$390.00. Students will complete a senior project during this course.

Full-year Course Offerings for Seniors (Grade 12 only):

SUPA: WRT 105: PRACTICES OF ACADEMIC WRITING
1 Credit (full-year college-level course)

This SUPA (Syracuse University Project Advance) course will foster a community of writers who have the specific purpose of developing as critical readers, writers, and thinkers. Students explore strategies of critical academic writing in various genres, including analysis, argument, and researched writing. Students learn to develop ideas through the choices they make as writers—from invention to making and supporting claims to sentence-level editing to designing finished print and digital texts. This college-level course challenges students to understand that effective communication requires people to be aware of the complex factors that shape every rhetorical context. Through this course, students will discover how their work as writers extends beyond the immediate requirements of the classroom and prepares them for effective engagement with issues in the workplace, local community, and global society. Students will engage in research, utilize and evaluate various resources and synthesize and apply research in accordance with citation, genre conventions and ethical standards. Students will practice a range of revision strategies appropriate to various writing situations. This course will include fiction and non-fiction readings and will fulfill the full-year English 12 requirement. Students who successfully complete the course are entitled to a Syracuse University transcript recording 3 credits earned. Students are advised that this is a college level class with

appropriately rigorous expectations including college-level papers and summer reading. The approximate cost for this class is approximately \$345.00. Students will also complete a senior project in this course.

SUPA: CRS 325: PRESENTATIONAL SPEAKING

1 Credit (full-year college-level course)

Oral communication skills are essential to success in school, in business, and in life. This SUPA (Syracuse University Project Advance) course will improve your public speaking skills so that you are better prepared for college and your future career. CRS 325 presents the conceptual and practical dimensions of formal presentations in organizational settings. It is designed to build a solid understanding of the fundamentals of public presentations, as well as the ability to employ those skills flexibly so that a speaker can adjust selected topics and tactics to specific audiences. This course will include fiction and non-fiction readings and fulfills the full-year English 12 requirement. Students who successfully complete the course are entitled to a Syracuse University transcript recording 3 credits earned. While there is no formal entrance criteria, students are advised that this is a college level class with appropriately rigorous expectations. The approximate cost for the class is approximately \$345.00. Students will also complete a senior project in this course.

Course Descriptions in Math

AP STATISTICS

1 Credit

Prerequisite: Geometry

Co-requisite: Algebra 2

This full year course is equivalent to a first semester college level introductory statistics course. Topics include: Exploring Univariate Data; Correlation and Linear Regression; Modeling Non-linear Data; Categorical Data Distributions; Sampling Techniques; Experimental Design; Introduction to Simulation; Probability; Random Variables; Binomial and Geometric Distributions; Confidence Intervals; Significance Tests for Means; Proportions and Categorical Distributions (Chi-Squared Test); and Inference for Regression. **Students are required to have TI-84+ graphing calculator.**

****Students enrolled in this class MUST sit for the AP Exam in May.****

AP CALCULUS AB & BC

1 Credit

Prerequisite: Pre- Calculus or Pre-Calc H

This full-year course is the equivalent to a first semester college course in calculus and is the culmination of a rigorous mathematics course of study at the high school level. The course continues with the notion of limit behavior and its applications, specifically, rates of change and areas under curves. The fundamental understanding of these concepts will assist in the understanding of the derivative and the integral. Emphasis throughout will be more on the approach to modeling, analyzing, and solving problems, rather than the ability to manipulate or memorize. In this course, students will focus on being able to interpret and verify conclusions graphically, numerically and verbally.

Students are required to have a TI-84+ graphing calculator.

****Students enrolled in this class MUST sit for the AP Exam in May.****

Calculus BC is an extension of Calculus AB and includes all the Calculus AB topics in addition to: integration by parts and improper integrals, analyzing parametric, polar, and vector functions as well as calculating derivatives and integrals (areas between curves) for each type and polynomial approximations using series (Maclaurin and Taylor). Technology will be used extensively throughout both courses. Calculus BC is dependent on enrollment.

Students are required to have a TI-84+ graphing calculator.

****Students enrolled in these classes MUST sit for the AP Exam in May.****

Course Descriptions in Science

ADVANCED PLACEMENT/COLLEGE LEVEL COURSE DESCRIPTIONS

Students should have completed at least three Regents Level Sciences. Juniors interested in taking AP courses may do so in conjunction with Physics. Some seniors may opt to take two science AP electives. It is strongly recommended that interested students should speak to a school counselor, a science teacher, and their parents before they enroll in any advanced placement course. As with all college courses, the student is expected to have a mastery level understanding of the basic Regents courses. These courses vary in difficulty level and the science department strongly encourages your participation in at least one AP course. The curriculum for all AP Science Courses follows guidelines established by the AP College Board. (www.collegeboard.com). SAT subject area test can be taken after the appropriate subject area AP.

AP PHYSICS 1 & AP PHYSICS 2

The Advanced Placement Physics I and II courses will provide willing and academically prepared students a sequential systemic introduction to the main principles of college-level physics and emphasizes the development of problem solving ability and reasoning skills. For both courses, it is assumed that the student is familiar with algebra and trigonometry; calculus is seldom used, although some theoretical developments may use basic concepts of calculus. Focusing on these skills allows for the application of principles and use of scientific inquiry to promote a more engaging and rigorous experience for AP Physics students.

AP PHYSICS 1: ALGEBRA BASED

Prerequisite: Algebra 1, Geometry, Algebra 2, Chemistry Regents

AP Physics 1 is a yearlong introductory course equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. The AP Physics 1 exam will be taken in May.

AP PHYSICS 2: ALGEBRA BASED

Prerequisite: AP Physics I

AP Physics 2 is a yearlong course equivalent to a second-semester college course in algebra-based physics. This course will serve as a continuation of AP Physics 1 focusing on electricity & magnetism and modern physics components. More lab activities and the inclusion of additional topics such as thermodynamics and fluid dynamics. Students must take the AP Physics 2 exam in May.

AP ENVIRONMENTAL SCIENCE **1 Credit**

Prerequisite: Living Environment, Chemistry, Algebra & Geometry Regents, Regents level math.

The AP Environmental Science course is an interdisciplinary experience which embraces a wide variety of topics from different areas of environmental study. This exciting course is for students interested in gaining an understanding of the scientific principles underlying the Earth's natural ecosystems and the implications of human impact on these ecosystems. This course includes a strong laboratory and field investigation component. Students learn about the environment through first hand observation. These diverse experiments provide students with important and enjoyable opportunities to test concepts and principles that are introduced in the classroom. Students acquire skills in techniques such as water sample analysis, investigating global temperature changes, and human population dynamics through data analysis. All students must sit for the AP Exam in May.

AP BIOLOGY
1 Credit

Prerequisite: Successful completion of Living Environment, Physical Setting: Chemistry, 2 years Regents level math

The AP Biology course is designed to be taken by students after the successful completion of a first course in high school biology and one in high school chemistry. It aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. The two main goals of AP Biology are to help students develop a conceptual framework for modern biology and to help students gain an appreciation of science as a process. The ongoing information explosion in biology makes these goals even more challenging. Primary emphasis in an Advanced Placement Biology course should be on developing an understanding of concepts rather than on memorizing terms and technical details. Essential to this conceptual understanding are the following: a grasp of science as a process rather than as an accumulation of facts; personal experience in scientific inquiry; recognition of unifying themes that integrate the major topics of biology; and application of biological knowledge and critical thinking to environmental and social concerns. All students must sit for the AP Exam in May. This course will prepare students for portions of the SAT Subject test exam in Biology.

AP CHEMISTRY
1 Credit

Prerequisite: Successful completion of Living Environment, Chemistry & Physics*, 2 years Regents level math**

AP Chemistry is a yearlong course equivalent to a college level general chemistry class. Students in such a course should attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course should contribute to the development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. The college course in general chemistry differs qualitatively from the usual first secondary school course in chemistry with respect to the kind of textbook used, the topics covered, the emphasis on chemical calculations and the mathematical formulation of principals, and the kind of laboratory work done by students. Quantitative differences appear in the number of topics treated, the time spent on the course by students, and the nature and the variety of experiments done in the laboratory. The importance of the theoretical aspects of chemistry has brought about an increasing emphasis on these aspects of the content of general chemistry courses. Topics such as the structure matter, kinetic theory of gases, chemical equilibria, chemical kinetics and the basic concepts of thermodynamics are now being presented in considerable depth. All students must sit for the AP Exam in May. The students will be prepared to take the SAT Chemistry subject test at the end of this course.

*may be taken concurrently with Physics

**may be taken concurrently with Pre-Calculus Honors

FORENSIC SCIENCE w/Lab (SUNY)
1 credit (4 college credits)
***Seniors only**

Prerequisite: Completion of Living Environment and Chemistry Regents

Forensic Science is an introductory college level course offered by the Pelham science department in cooperation with the Chemistry department at Westchester Community College (WCC). Students who enroll in this course must pay the WCC discounted tuition rate (approximately \$250/course), which is 1/3 of the college's standard tuition charge. Once the student successfully completes the course he/she is entitled to a SUNY transcript of the credits earned. The course includes lectures, laboratory, simulation activities and projects on a variety of forensic science content areas. The areas include performing forensic autopsies, entomology, traumatic death analysis, forensic toxicology and poisonings, identification of remains through teeth and bones, scattered remains recovery, crime scene investigations for outdoor and indoor scenes, blood spatter analysis, latent fingerprints, interviewing witnesses and interrogation techniques, forensic psychology and criminal profiling of serial killers.

SCIENCE RESEARCH PROGRAM (affiliated with the University at Albany - SUNY)

Science Research is a four-year program in which students investigate an area of science and perform original research projects with qualified scientists. This program offers a unique opportunity for students allowing them to work at the forefront of discovery. Students are able to conduct investigations in all areas of the biological, chemical, physical, and social sciences. Students work side-by-side with researchers at college, university and medical school laboratories attempting to solve some of the most perplexing problems society faces today. In the process, students develop many academic and personal skills that will be of lifelong benefit. The culmination of their work is a scientific research paper. This paper is entered into the Siemens, Intel Science Talent Search, as well as other science competitions determined by grade level. Students are expected to actively participate in and organize the Annual Science Research Symposium during which they will present their work and coordinate the publication of the Pelham Science Research Journal. **Students can earn up to 12 college credits – starting the summer entering junior year. The cost for each SUNY Albany course is approximately \$150.**

Attendance at Science Competitions and Symposia is MANDATORY

Science Research I

1 Credit (Freshmen Only)

Prerequisite: Summer Assignment

This is the first course in a four-year sequence that creates the foundation necessary for students to be successful in their future research experience. Working both individually and in small groups, students engage in the scientific method through a variety of short and long term science experiments. Students learn the basics of journal article comprehension, writing research papers, statistical analysis and public speaking. As freshmen, students work in our Biotechnology Lab, where they demonstrate various skills they learn about in their Living Environment classes, such as DNA amplifications via Polymerase Chain Reaction, Restriction Enzyme Analysis, Bacterial Transformations, and Culture and Identification of Bacteria. Students also learn how to prepare reagents, perform sterile techniques, and run and maintain a biotechnology laboratory.

Science Research II

1 Credit (Sophomores Only)

Prerequisite: Science Research I

Students are given the opportunity and supported in conducting research in various STEM fields: science, technology, engineering, and mathematics. Once a significant amount of background research is performed and a strong sense of understanding is gained, the student contacts a research scientist within their field of interest. The initial stages of their research experience commences during the spring and summer. Students also participate in multiple competitions as they prepare for junior and senior year.

Science Research III & IV

1 Credit (Juniors and Seniors Only)

Prerequisite: Science Research III/III

Through collaboration with their mentors and research director, juniors and seniors further design and conduct authentic science research. All steps in the student's progress are carefully and systematically monitored to assure that students engage in each phase of scientific research and have completed the requirements of the program. Attendance and participation in the Regional Intel ISEF competition which may fall on the same day as the March SAT is mandatory. Students are required to finalize the writing of their scientific research paper and potentially publish their paper. Papers must be entered into all available science competitions (Intel STS,

SIEMENS, Intel ISEF (WESEF), and JSHS.) The findings of these papers will be presented to the class, school district, and at regional and statewide symposia.

Course Descriptions in Social Studies

WORLD HISTORY AP

Grade 10

Prerequisite: Global History & Geography I

1 Credit (full-year course)

This is a challenging, college-level history course that seeks to help students understand the larger patterns of human history from roughly 8000 B.C.E. to the present day. AP World History focuses less on individual nations or regions and instead focuses on patterns of interaction and shared experiences between societies. For example, the course concentrates both on how peoples of the world came together at significant places and times as well as how different groups of people shared and developed processes that might not have included direct interaction. Themes are explored in order to better see large-scale patterns throughout the course. Summer reading is suggested prior to entry into the class. All students sit for the AP Examination in May and the Global Regents examination in June. This course will prepare students for portions of the SAT Subject test in World History. Requirements include: essay and objective exams, class participation and discussion, at least two research papers, various learning projects, and textbook/supplemental readings. Link to New York State curriculum: <https://www.engageny.org/resource/new-york-state-k-12-social-studies-framework>

Link to College Board for AP World History: <https://apstudent.collegeboard.org/apcourse/ap-world-history>

UNITED STATES HISTORY AP

Grade 11

Prerequisite: Global History & Geography I & II

1 Credit (full-year course)

This college-level course provides students with the analytical skills and factual knowledge to deal critically with United States history and makes the same demands on them as a full year introductory college course. Students will learn to assess historical materials, their relevance to a given problem, and their reliability and importance. Students will learn to weigh the evidence and interpretations presented in historical scholarship. The course will help students develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. Extensive reading and writing are required. All students take the AP examination in May and sit for the Regents Exam in June. This course will prepare students for portions of the SAT Subject test in US History. Students taking this course will participate in a Political Process seminar which will satisfy the ½ credit Participation in Government graduation requirement. Summer reading and writing is suggested prior to entry into the class. Requirements include: frequent research projects, learning activities, class participation and discussion, essay and objective tests, and college textbook/supplemental readings.

Link to New York State curriculum: <https://www.engageny.org/resource/new-york-state-k-12-social-studies-framework>

Link to College Board course description:

<https://apstudent.collegeboard.org/apcourse/ap-united-states-history>

CRIMINAL JUSTICE (CJ101)

Prerequisite: U.S. History & Government

Fulfills the Grade 12 Participation in Government requirement

½ Credit (semester course)

SUNY Westchester (Fee to SUNY)

The purpose of this college-level semester course is to increase students' understanding of their own role as

participants in constitutional democracy, including a commitment to exercising their responsibilities, privileges and rights as citizens. Through the analysis of important criminal justice public policy issues, students will gain knowledge and competency in problem solving and decision-making skills. The course will include an overview of the Criminal Justice System which includes models of criminal justice and the US Patriots Act of 2001, the crime picture with regard to statistical data, victimology, and emerging crime patterns and trends, causes of crime which includes the historical as well and emerging theories of crime causation, emergence of criminal law as a form of social control, American policing, police administration, the American Court System, criminal sentencing, Probation and Parole as a form of community corrections, Prisons, Prison life and Juvenile delinquency. This is a college level class through SUNY Westchester and enrolled students are required to pay a reduced tuition of approximately \$189.00 to SUNY. Upon successful completion of the course students will receive three credits from SUNY Westchester. Requirements include: class participation and discussion, essay and objective exams, research/learning projects and textbook/supplemental readings. This course fulfills the N.Y. State Participation in Government requirement.

Link to SUNY Westchester: <http://www.sunywcc.edu/academics/office-of-high-school-partnerships/ece/>

U.S. GOVERNMENT & POLITICS AP

Prerequisite: U.S. History & Government

Fulfills the Grade 12 Participation in Government requirement

1 Credit (full-year course)

The AP United States Government and Politics course provides an analytical perspective on government and politics in the United States. This course involves both the study of general concepts used to interpret U.S. politics and the analysis of specific case studies. AP United States Government and Politics fulfills the ½ credit Participation in Government requirement as outlined by the New York State Department of Education. Topics of study include: constitutional underpinnings of U.S. government, political beliefs and behaviors, political parties, interest groups, and mass media, institutions of national government: the congress, the presidency, the bureaucracy, the federal courts, public policy, civil rights and civil liberties, the philosophical foundations of the rights and responsibilities of being a citizen, how United States citizenship compares with the policies of other governments, and how students can exercise their rights and responsibilities. Requirements include: class participation and discussion, essay and objective exams, research/learning projects, and college textbook and supplemental readings. All students must sit for the AP exam in May.

Link to College Board course description: <https://apstudent.collegeboard.org/apcourse/ap-united-states-government-and-politics>

EUROPEAN HISTORY AP

Grade 12

Prerequisite: U.S History & Government

1 Credit (full-year course)

The content of this course is a college-level survey of Modern European History (1450 - present). Emphasis is placed upon development of skills essential to the historian: critical reading of primary and secondary sources, analytical writing, and research skills. All students will take the Advanced Placement examination in European History in May. Summer reading is suggested prior to entry into the class. Requirements include: participation in class discussion, comprehensive essay and objective unit tests, a major research project completed during the first semester, periodic group presentations, college textbook/supplemental readings and various other learning projects. Students taking this course will participate in an Economics Seminar satisfying the graduation requirement of Economics.

Link to College Board course description:

SYRACUSE UNIVERSITY PROJECT ADVANCE (SUPA)/AP PSYCHOLOGY PSYCHOLOGY 205 FOUNDATIONS OF HUMAN BEHAVIOR

Grade 12 only

1 Credit (Fee to Syracuse University) (full-year course)

SUPA/AP Psychology is an introductory college level course offered by the Pelham Social Studies department in cooperation with the Psychology Department at Syracuse University and the College Board. Students who

enroll in the course must pay Syracuse University a discounted tuition rate of approximately \$345.00. Criteria for admission into the class include an overall high school GPA of a B (85%) and teacher/supervisor recommendation based on work ethic and skills. Once a student successfully completes the course he/she is entitled to a regular Syracuse University transcript recording credits earned. All students must sit for the AP Psychology exam in May. SUPA/AP Psychology provides instruction in the fundamental topics in psychology such as learning, memory, cognition, development, personality, emotion, motivation, intelligence, and social psychology. Students will become acquainted with psychological research methods and procedures. In addition, current topics, events, real life experiences, and applications of psychological theories and research are included in the curriculum. Requirements include: class participation and discussion, essay and objective exams, research/learning projects and college textbook and supplemental readings.
Link to the SUPA course description: <http://supa.syr.edu/>.
Link to College Board for AP Psychology: http://www.collegeboard.com/student/testing/ap/sub_psych.html

Course Description in Technology

AP COMPUTER SCIENCE PRINCIPLES
1 Credit (full-year course)

Prerequisite: Grades 10, 11, 12
Recommended: completion of
Geometry/Trigonometry

This AP level course offers a multidisciplinary approach to the underlying principles of computation. It is a course that is equivalent to a first-semester introductory college computing course. The course will introduce students to the creative and broader aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving.

[Click here for a link to the College Board Description](#)

Course Descriptions in World Languages

INTERMEDIATE FRENCH, (Syracuse University FRE 201)
College credit: 4 credits

Prerequisite Level IV
Open to Seniors Only

This course allows students with skills at the Intermediate level to continue their learning of the language and to prepare them for continuing into advanced university courses. By the end of the course, students should be able to sustain understanding of main ideas and details over long stretches of continued discourse, whether written or oral. They should also be able to read a variety of texts with increased comprehension and to write well enough to meet practical needs. Course work will include the use of film and video to develop listening and note taking skills; role playing, interviews, and extended narrative accounts to develop speaking skills; and the composition of letters, journals, summaries and reports to develop writing skills. The class is conducted in French. This is a college course offered through Syracuse University. Students pay the discounted fee (approx. \$460) to Syracuse University. Upon successful completion of the course, students are entitled to a SU transcript for the four credits earned. Criteria for admission includes an 85 average in level 4 **and** teacher/supervisor recommendation based upon the listening and speaking skills of the student.

SPANISH 5 AP
1 Credit

Prerequisite: Level
4 Honors Spanish

This course is intended for qualified students who wish to complete studies in secondary school comparable in difficulty and content to a college course. Students should have attained an advanced proficiency in listening, speaking, reading and writing in order to enroll in this course. The course will prepare the students

for the Advanced Placement examination in May. The student will be required to communicate entirely in Spanish. Emphasis is on refining the 4 skills (listening, speaking, reading, and writing). Students are expected to read and discuss whole literary works in Spanish. Language laboratory continues to be an integral part of the course work. Students are required to take the AP exam.

INTERMEDIATE ITALIAN (Syracuse University ITA 201)

College credit: 4 credits

**Prerequisite Level IV
Open to Seniors Only**

This course is designed to further develop, strengthen, and refine students' language skills. Conducted completely in Italian, the course will review Italian grammar, polish writing and speaking skills, and offer consistent exposure to Italian language and culture. Class work will include interactive oral activities, weekly

compositions, and reading and discussion of a variety of authentic texts that span literature, current events, and cultural life. In addition, students will watch films, documentaries, and Italian television programs as the basis for written assignments and discussion. The class is conducted in Italian. This is a college course offered through Syracuse University. Students pay the discounted fee (approx. \$460) to Syracuse University. Upon successful completion of the course, students are entitled to a SU transcript for the four credits earned. Criteria for admission includes an 85 average in level 4 **and** teacher/supervisor recommendation based upon the listening and speaking skills of the student.

INTERMEDIATE SPANISH (Syracuse University SPA 201)

College credit: 4 credits

**Prerequisite Level IV
Open to Seniors Only**

Using film, TV/radio, and literary texts, this proficiency-based course reviews understanding of the formal structures of language, refines previously acquired linguistic skills, and builds awareness of Spanish culture. Students will use sources in a variety of media to develop oral, listening, writing, and reading skills. By the end of the course, students can be expected to communicate effectively in the language in order to give and get information; survive both predictable and complicated situations, narrate and describe in present, past, and future time; support opinions; and hypothesize. Classes are conducted in Spanish. This is a college course offered through Syracuse University. Students pay the discounted fee (approx. \$460) to Syracuse University. Upon successful completion of the course, students are entitled to a SU transcript for the four credits earned. Criteria for admission includes an 85 average in level 4 **and** teacher/supervisor recommendation based upon the listening and speaking skills of the student.

LATIN (Syracuse University LAT 201)

College Credit: 4 credits

**Prerequisite Latin 3 or 4
Grades 11 or 12**

Through review of elementary morphology and syntax and further study of idioms, rhetorical figures, and increasingly complex syntactical constructions, the student will transition from reading adapted to unadapted Latin text. A range of classical texts will be studied. In addition to increasing skill in reading Latin texts, students will learn about classical Roman culture, and should gain a greater appreciation for the eloquence of Latin prose style. The class structure will be largely lecture and discussion. This is a college course offered through Syracuse University. Students pay the discounted fee (approx. \$460) to Syracuse University. Upon successful completion of the course, students are entitled to a SU transcript for the four credits earned. Criteria for admission includes an 85 average in level 3 or 4 **and** teacher/supervisor recommendation.