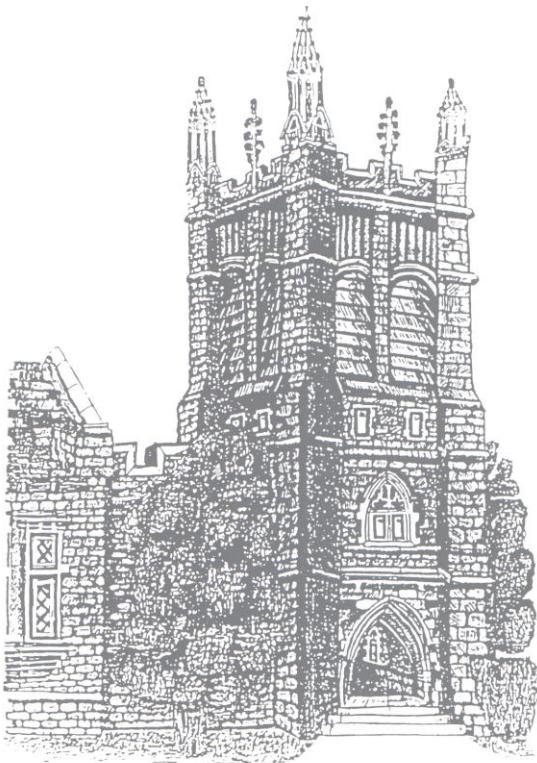


PRINCETON HIGH SCHOOL



“Live to Learn and Learn to Live”

**Program of Studies
2014-15**

PRINCETON HIGH SCHOOL

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Science – Dr. Cherry Sprague
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NOTE:

Traditionally, Princeton High School offers a comprehensive program of studies. Final decisions regarding the actual offering of any particular course for the upcoming school year will depend upon enrollment and budget constraints. Therefore, not all courses listed in this catalog are guaranteed to run every school year.

INTRODUCTION

This catalog is a reference manual for students, parents, and school personnel actively involved in curriculum planning at Princeton High School. It is a complete guide to the possible course offerings at Princeton High School. Each department has described its specific course offerings, highlighting the chief components of each course, as well as prerequisites for enrollment.

Planning an individual student's high school program of studies demands a cooperative effort between home and school. The program of studies that a student pursues in high school should reflect his or her aspirations, achievements, and aptitudes. The courses at Princeton High School provide students with many opportunities to meet their educational needs. Beyond state, district, college and career requirements, the students are encouraged to select courses that will be academically stimulating and personally enriching. In selecting particular courses, the following criteria should be considered. Does the course:

- *Meet the high school graduation requirements?
- *Provide an outlet for interests in specific subject areas?
- *Reflect an appropriate proficiency level?
- *Provide a background for post high school plans leading to career options?
- *Meet college entrance requirements?

Please consider the following when planning your academic program:

*Make sound initial choices. Low enrollment totals may lead to the cancellation of a course.

***Choose courses, not teachers.
Requests for schedule adjustments will not be honored based on the issue of personnel.**

*Discuss specific subject area choices with counselors, teachers, and/or department supervisors who can share valuable insight into the nature of specific courses.

***Any inquiries regarding scheduling should first be directed to the student's**

guidance counselor.

Minimum Scheduling Requirements

Every Princeton High School student must be scheduled for a minimum of 30 credits per year. Semester courses can run first and/or second semester, depending upon the number of student requests for enrollment.

Grade Level Promotion Requirements

In order for a student to be promoted to the next grade level, he/she must have completed a required number of credits during the school year (September through August). These minimums, when added, equal the 120 credit minimum graduation requirement.

9th to 10th grade = 30 credits
10th to 11th grade = 60 credits
11th to 12th grade = 90 credits
12th to graduation = 120 credits

Athletic Eligibility

Any student who wishes to compete in interscholastic sports must meet the minimum credit requirements established by the New Jersey Interscholastic Athletic Association. A student must have passed **30 credits** in the previous year to be eligible for participation in sports offered in the fall and/or winter. To be eligible for sports offered in the spring, a student must have passed the equivalent of **15 credits** in the fall semester.

Graduation Requirements

In order for a student to receive a high school diploma from Princeton High School, each student must:

Successfully complete a minimum of 120 credits beginning in grade 9 and concluding in grade 12. The course work must include the following course requirements:

1. Language Arts Literacy: 20 credits

2. Mathematics: 15 credits, including one year of geometry
3. Science: 15 credits, including one year of biology, and one additional year of inquiry-based science such as chemistry, environmental science, or physics and participation for the NJBCT
4. United States History: 10 credits
5. World History & Cultures: 5 credits
6. World Languages: 5 credits, however, we strongly recommend 15 credits in one language for all students
7. Physical Education & Health/Driver's Ed: one year (4 credits) for each year of public high school enrollment in New Jersey
8. Visual & Performing Arts: 5 credits
9. Financial, Economic, Business and Entrepreneurial Literacy: Effective with the 2010-2011 grade nine (9) class: 2.5 credits
10. Practical Arts: 5 credits
11. Career Awareness/Community Service Program: completed during sophomore year (21st Century Life and Careers, or Career-Technical Education)

Minimum graduation requirements should not be confused with college/university admission requirements. The general rule of thumb for most four-year colleges/universities is that applicants should have completed a minimum of 16 to 18 academic units upon graduation. Normally academic units are considered to be full year courses in college preparatory math, science, English, social studies, and world languages.

Course Levels

There are two levels of courses used to calculate a student's weighted grade point average.

Unweighted: Any course not designated as an advanced placement course, an accelerated course, or a Princeton University Course.

Weighted: Any course designated with an AP, ACC, ADV (World Language courses only), or PU. Grade point equivalents increase for grades earned in weighted courses. For example: Standard "B+" = 3.3, ACC "B+" = 4.3.

Important Scheduling Deadlines

1. Changing courses after the academic year has started can often be very disruptive to a student's schedule. Thus, elective course changes will not be permitted if they interfere with academic courses already scheduled. Additionally, schedule changes will ONLY be considered after the completion of the **fifth full day of school**. **Please note:** ALL changes after the school year has started takes time. Priority is given to Seniors. Priority is also given to placement issues. Students, parents, teachers and Supervisors must all be in agreement before any and all changes are made.

2. Adding classes beyond the 5-day rule:
 * Last day to add a first semester class: **September 26, 2014**
 * Last day to add a second semester class: **February 27, 2015**
 * Last day to add a full-year class: **September 26, 2014**

3. Dropping classes: (Remember, all students must maintain a minimum course load of 30 credits!)
 * Last day to drop a first semester class: **September 19, 2014**
 * Last day to drop a second semester class: **February 6, 2015**
 * Last day to drop a full-year class: **October 31, 2014**

4. Please note: Students need written permission of the parent, teacher, department supervisor, director of guidance and principal when requesting to add or drop classes by using our drop/add form.

5. A student who withdraws from any course **prior** to the above deadlines will be removed from the class roster and no record of this withdrawal will appear on the student's permanent record. A withdrawal **after** the deadline will receive a record of Withdraw Pass (WP) or Withdraw Fail (WF) on the student's permanent transcript.

6. Advancing of a Course Level (mathematics, science, and world languages):

Advancement of course level allows a student to bypass a prerequisite course by pursuing a **pre-approved**, organized course of study at a recognized institution outside the school day or school year. A student may advance a course level in a given sequence of courses found in mathematics, sciences (AP courses only) and world languages with the understanding that:

- * A student must be earning an average of a "B+" or better in the current course.

*** Exception: For students planning to enroll in Pre-Calc Acc before 10th grade, an A- is required in the current and all previous math courses.**

- * A student takes a **pre-approved** 120-hour advancing credit course in the level being bypassed.

- * A student submits the Advancement of a Course Level Form to the appropriate supervisor before **May 9, 2014**. The form is available on-line.

- * A student submits a description of the anticipated coursework to the appropriate supervisor. The description must include the number of hours the course meets per week and the number of weeks of study.

- * A science course must have a lab component. For AP Science courses, the student must already have earned credit in a lab science course at PHS. * A language course must specify how the development of oral proficiency will occur.

- * A student submits notebooks, quizzes, tests, and lab reports compiled during the course. The supervisor reviews each

student's coursework as part of the placement process.

- * A student will not be granted permission to move ahead to the next level unless s/he takes the PHS final exam (and possibly a mid-year exam) in the bypassed course.

- * A student takes the exam only once and must earn a score of **at least 87%** to be **considered** for advancement.

- * In mathematics, a student must also meet the specific requirements for eligibility for each course.

- * For advancing in world languages, the exam includes a proficiency test consisting of an interview or presentation in the target language as well as reading and writing tasks.

- * A student registers with the supervisor to take the exam on either **August 6 or 13, 2014**. Test locations and times will be posted on the PHS website.

- * An approved course taken at other institutions for the purpose of advancing a level may be reflected on a student's transcript, but will not be awarded credit. Please have the institution send official documentation to the PHS Guidance Office. Course grades will not be factored into the GPA.

- * Priority for placement into courses is given to those students who have enrolled in the course through the regular scheduling process.

- * Placement decisions are made at the building level by the supervisor in conjunction with the principal and are considered final.

Scheduling Timeline

Program of Studies Parent Night will be held on **January 15, 2014** at 7 pm in the PHS PAC. Student Program of Studies Orientation and Course Registration at John Witherspoon Middle School, Charter School, Cranbury School and Princeton High School will be held during the months of **January/February 2014**. Incoming 9th grade students and their parents will meet with a counselor individually to register for courses. **It is important to choose courses wisely and to make solid decisions during this appointment because not all course**

changes later in the process will be honored.

Course Request Verifications will be mailed home during the month of **April/May 2014**. This is NOT a schedule, rather a verification of courses selected. If there are discrepancies, it is critical that the student and/or parent contact their counselor.

Please note: All requests for course changes will not be honored after March 14, 2014. (Before Spring Break!)

Tests for approved advancement of course level will be given on **August 6 or 13, 2014**.

Final schedules will be mailed home one week prior to the first day of school. Only schedule changes for placement adjustments will be made.

VISUAL & PERFORMING ARTS

Active participation in an arts program is a critical component in every child's education. Arts programs enrich students' lives and provide a vehicle for them to communicate and to express human emotion and ideas beyond the limits of language. In addition, study in the arts prepares students to be successful in a 21st century world that demands innovative thinking and creativity in an increasingly competitive global society. We believe that all students are capable of growth in the arts and that there are skills and concepts inherent in the arts that cannot be taught in other disciplines. Participation in an arts program allows students to make connections across content areas and cultural boundaries. The courses listed below provide sequential instruction in each art discipline, challenging each student to reach his or her potential. **All courses listed in this department satisfy the Visual and Performing Arts requirement unless otherwise stated.**

VISUAL ARTS COURSES

Entry-level courses in the Visual Arts include: Mixed Media, Studio Art I (2D), and Studio Art I (3D). Students who wish to continue their study of visual art beyond high school are reminded that a well-rounded foundation in art includes courses in both two and three-dimensional art.

For students who plan to take visual art for three years, the following sequence is suggested:

Studio I (2D) – first year
Studio I (3D) – second year
Studio II (3D or 2D) – third year

For students who plan to take visual art for four years, a variety of course sequences are possible. A few are listed below:

Studio I-2D	Studio I-2D	Mixed Media
Studio I -3D	Studio II-2D	Studio I-3D
Studio II-2/3D	Studio III-2D	Studio II-3D
Studio III-2/3D	Studio IV	AP Art History

*AP Art History can be substituted for any third or fourth year course with permission of the instructor

MIXED MEDIA ART

H72000
Grades: 9-12 2.5 Credits Sem
Prerequisite: None

Mixed Media is an introductory studio course focusing on making aesthetically functional objects. Students will explore influences from various cultures, including their own, which enhance the creation of assigned projects. Both two-dimensional and three-dimensional projects will be made with emphasis on three-dimensional projects. Students will incorporate aspects of drawing and painting into their work. Students will explore a wide range of materials and techniques with approximately four projects per semester. Some of the projects include: clay vessels, masks, tile making and mosaics. This hands-on course utilizes videos, demonstrations, field trips and previous student work as instructional supplements. **Students can enroll for one or two semesters.**

STUDIO ART I (2D)

H74000
Grades: 9-12 5.0 Credits Year
Prerequisite: None

This is a full-year exploratory course for students who have an interest in art and wish to improve their skills or learn new ways to be visually expressive through an extensive exploration of two-dimensional media. The structure of art will be studied through various assignments that may include perspective, direct drawing, printmaking and applied design. The techniques of other artists will be studied throughout the year.

STUDIO ART II (2D)

H74001
Grades: 10-12 5.0 Credits Year
Prerequisite: Studio Art I 2D

This course will allow students to expand their technical and conceptual skills by utilizing the principles of two-dimensional media and design. Projects will build upon students' experience in Studio I 2D through a widening range of materials and techniques. Emphasis will be placed on the development of each student's individual initiative and capacity for self-investigation and expression. Opportunities to display completed works at both in-school and outside-of-school exhibits will be provided. Those wishing to prepare an admissions portfolio for college or art school will be assisted and advised throughout this course.

STUDIO ART III (2D) **H74002**
Grades: 11-12 5.0 Credits Year
Prerequisites: Studio Art II 2D

This course offers an intense and focused investigation into drawing and painting. The class is designed for the serious student who is motivated, disciplined, and intellectually mature. The course work is based upon the investigations in Studio II 2D and the first year studio arts requirements at competitive art schools and/or universities that offer a BFA degree in studio art. This course emphasizes, in a coordinated and chronological way, the transition from teacher assignments to a student-generated conceptual approach. Small group projects and individual works will be explored.

STUDIO ART IV (2D) **H74003**
Grade: 12 5.0 Credits Year
Prerequisite: Three years of Studio Art (2D or 3D) or review of portfolio

This Studio IV (2D) course is the culminating studio arts offering at Princeton High School. The purpose of Studio IV (2D) is twofold. One purpose is to prepare serious visual arts students for admission to colleges, art schools, or universities offering four-year Bachelor of Fine Arts programs. It will also prepare the student who is interested in pursuing the arts as an essential part of an overall four-year undergraduate degree. Class work in the first semester is focused on reinforcing studio basics, technique, and skills. The rest of the year is an ongoing process of individual and group critique. Each student's individual artistic and developmental needs will be addressed; these needs form the basis for each student's studio assignments. Throughout the year much emphasis will be placed on historical and contemporary arts issues. Trips to museums, galleries and other out of school work will be planned. The year will culminate in the presentation of each student's individual portfolio and exhibit in Numina Gallery.

STUDIO ART I (3D) **H74004**
Grades: 9-12 5.0 Credits Year
Prerequisite: None

This full year exploratory studio course is for students who wish to increase their knowledge and skills in three-dimensional art and the foundations of sculpture. A variety of materials and methods will be explored including hand

building with clay, carving plaster and relief tile making. Slide lectures, videos, fieldtrips and artists talks will supplement the primary studio format. Opportunities to display works will be provided and individual expression is encouraged within structured assignments.

STUDIO ART II (3D) **H74005**
Grades: 10-12 5.0 Credits Year
Prerequisite: Studio Art I (3D)

This course is for students who have successfully completed Studio Art I (3D) and wish to continue their study of sculpture on an advanced level. More in-depth assignments and processes will be introduced, and individual styles and interests will be encouraged and explored. Field trips, visiting artists, and slide/lectures will supplement this studio course. Opportunities to display completed works in a variety of settings will be offered and those wishing to prepare a college portfolio will be assisted and advised throughout the year.

STUDIO ART III (3D) **H74007**
Grades: 11-12 5.0 credits Year
Prerequisite: Studio Art II (3D)

This course requires a high level of student interest and self-motivation in pursuing further exploration of 3D materials and methods, utilizing the skills and experience from the two previous 3D courses. Students will be expected to interpret the assigned projects both literally and metaphorically. Students will have the opportunity to include many mixed materials methods in their work, such as sound, light, found objects, and casting multiples. Art history from ancient through contemporary work will be studied and discussed. Individual and group critiques will be an integral part of this course. Field trips, videos, visiting artists, and slide lectures will supplement this primarily hands-on studio course.

AP ART HISTORY **H74006**
Grades: 11-12 5.0 Credits Year
Prerequisite: Approval of the instructor and/or department supervisor

This course examines creative works in the visual arts from the Paleolithic Age to the present. The major directions of painting, sculpture, and architecture in each culture are surveyed to grasp the significance of creative expression for the time period. Material is presented chronologically and with cross-cultural comparisons. In

addition to a text, slides, reproductions, film-strips, and video materials make each class period unique. Supplementary field trips enrich the units of study. AP Art History is strongly recommended for students wishing to continue study in any field of art. **Princeton High School expects that all students enrolled in an AP course will take the AP exam.**

INSTRUMENTAL MUSIC COURSES

TIGER BAND I

H74010

Grades: 9-12 5.0 Credits Year
Prerequisites: Placement audition is required.

Tiger Band I is a performing ensemble class for novice level students with limited experience in jazz repertoire. Students will concentrate on sight-reading as well as appropriate style playing including standard swing patterns and jazz articulations. Students will be introduced to all major, dorian and mixolydian scales. Students will be introduced to jazz band literature that will promote student achievement and performance ability that is level appropriate. The literature and supplementary materials will promote a sequential development of the following skills: note reading, tone production, breath control, articulation, dynamics, phrasing, blend, balance, rhythmic analysis, music terminology, proper rehearsal and performance etiquette.

TIGER BAND II

H74011

Grades: 9-12 5.0 Credits Year
Prerequisites: Placement audition is required.

Tiger Band II is a performing ensemble class for novice level students having some prior experience with jazz repertoire. Students will concentrate on sight-reading as well as appropriate style playing including standard swing patterns and jazz articulations. Students will be introduced to all major, dorian, mixolydian and blues scales. Students will be introduced to jazz band literature that will promote student achievement. The literature and supplementary materials will promote a sequential development of the following skills: note reading, tone production, breath control, articulation, dynamics, phrasing, blend, balance, rhythmic analysis, music terminology, proper rehearsal and performance etiquette.

NASSAU BAND I

H74012

Grades: 9-12 5.0 Credits Year
Prerequisites: Placement audition is required.

Nassau Band I is a performing ensemble class for intermediate level students with limited experience in jazz repertoire. Students will concentrate on sight-reading as well as appropriate style playing, including standard swing patterns and jazz articulations. Students will be performing all major, dorian, mixolydian and blues scales from memory. Students will be studying medium level jazz band literature that will promote student achievement and performance ability. The literature and supplementary materials will promote a sequential development of the following skills: note reading, tone production, breath control, articulation, dynamics, phrasing, blend, balance, rhythmic analysis, music terminology, proper rehearsal and performance etiquette. In addition to the playing requirements, students in Nassau Band I will be introduced to chord theory and analysis as it pertains to their literature and as an introduction to improvisation.

NASSAU BAND II

H74013

Grades: 9-12 5.0 Credits Year
Perquisites: Placement audition is required.

Nassau Band II is a performing ensemble class for intermediate level students that have had prior experience with jazz repertoire. Students will concentrate on sight-reading as well as appropriate style playing including standard swing patterns and jazz articulations. Students will be performing all major, dorian, mixolydian and blues scales from memory. Students will be studying medium level jazz band literature that will promote student achievement and performance ability. The literature and supplementary materials will promote a sequential development of the following skills: note reading, tone production, breath control, articulation, dynamics, phrasing, blend, balance, rhythmic analysis, music terminology, proper rehearsal and performance etiquette. In addition to the playing requirements, students in Nassau Band II will be introduced to chord theory and analysis as it pertains to their literature and as an introduction to improvisation.

PHS JAZZ ENSEMBLE**H74014**Grades: 9-12 5.0 Credits Year
Prerequisites: Placement audition is required.

PHS Jazz Ensemble is a performing ensemble class for advanced students that have had prior experience with jazz repertoire. This group will perform at the big band dances held at Princeton High School as well as other community events. PHS Jazz Ensemble will also participate in a limited number of jazz festivals, which may include the New Jersey State Festival. Students will concentrate on sight-reading as well as appropriate style playing including swing patterns, several Latin styles and jazz articulations. Students will be performing all major, minor, dorian, mixolydian and blues scales from memory. Students will be studying medium-advanced level jazz band literature that will promote student achievement and performance ability. The literature and supplementary materials will promote a sequential development of the following skills: note reading, tone production, breath control, articulation, dynamics, phrasing, blend, balance, rhythmic analysis, music terminology, proper rehearsal and performance etiquette. In addition to the playing requirements, students in PHS Jazz Ensemble will study chord theory and analysis as it pertains to their literature and as part of their improvisation training.

PRINCETON STUDIO BAND**H74015**Grades: 9-12 5.0 Credits Year
Prerequisites: Placement audition is required.

PHS Studio Band is a performing ensemble class for advanced students that have had prior experience with jazz repertoire. This group will perform at the big band dances held at Princeton High School as well as other community events. PHS Studio Band will also participate in a limited number of jazz festivals, which may include the NJ State Festival. Students will concentrate on sight-reading as well as appropriate style playing including swing patterns, several Latin styles and jazz articulations. Students will be performing all major, minor, dorian, mixolydian and blues scales from memory. Students will be studying advanced level jazz band literature that will promote student achievement and performance ability. The literature and supplementary materials will promote a sequential development of the following skills: note reading, tone production, breath control, articulation, dynamics, phrasing, blend, balance, rhythmic

analysis, music terminology, proper rehearsal and performance etiquette. In addition to the playing requirements, students in PHS Studio Band will study chord theory and analysis as it pertains to their literature and as part of their improvisation training.

REPERTOIRE ORCHESTRA**H74020**Grades: 9-12 5.0 Credits Year
Prerequisite: None

This course is the preparatory orchestra of the high school orchestral program; it will serve to develop the musical skills that are a prerequisite for membership in Sinfonia. Emphasis will be placed on improving individual technique, tone production, ensemble skills, and sight-reading. All Repertoire Orchestra members will participate in the regularly scheduled high school orchestral concerts.

SINFONIA**H74021**Grades: 9-12 5.0 Credits Year
Prerequisite: Placement audition is required; please contact director via email during registration process.

Designed for freshmen through seniors, this course will serve to develop the musical skills that are a prerequisite for membership in the PHS Orchestra. Emphasis will continue to be placed on developing individual technique, tone production, ensemble skills, ear training and sight-reading. All Sinfonia members will participate in the regularly scheduled high school orchestral concerts.

PHS ORCHESTRA**H74022**Grades: 10-12 5.0 Credits Year
Prerequisite: Placement audition is required; please contact director via email during registration process.

Designed for advanced musicians, this course provides the opportunity to study and perform the varied orchestral literature of the 18th, 19th, and 20th centuries. In addition, emphasis will continue to be placed on developing individual technique, tone production, ensemble skills, ear training, and sight-reading. Repertoire will vary annually.

AP MUSIC THEORY **H74023**

Grades: 10-12 5.0 Credits Year

Prerequisites: Ability to read and write musical notation, basic performance skills in voice or on an instrument, and approval of instructor and/or the department supervisor.

This course is designed to enhance a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. The student will develop aural skills, sight-singing skills, written skills, compositional skills, and analytical skills. The content will include mastery of the rudiments and terminology of music, which include: notation, intervals, scales and keys, chords, metric organization, rhythmic patterns, harmonization of a melody, realization of a figured bass, analysis of repertoire, functional triadic harmony in four-voice texture, tonal relationships, modulation, phrase structure, and small forms (e.g., rounded binary, simple ternary, strophic). Students will gain, in addition to technical knowledge and skills, exposure to and familiarity with a wide variety of musical literature and the ability to apply their knowledge and skills. **Princeton High School expects that all students enrolled in an AP course will take the AP exam.**

from year to year.

HIGH SCHOOL WOMEN'S CHOIR H74032

Grades: 10-12 5.0 Credits Year

Prerequisite: None

This chorus is open to women in grades 10-12. The course offers a review of basic theory, harmony, sight-reading, and phonetics, developing more advanced vocal technique and repertoire. Repertoire varies from year to year so that students may choose this more than one year and receive credit for each year it is selected.

PHS CHOIR **H74033**

Grades: 10-12 5.0 Credits Year

Prerequisite: Audition

This course includes the study of advanced musical compositions and seeks to develop a high level of vocal proficiency through special concerts given throughout the year. The Princeton High School Choir's repertoire spans the ages, with a range of choral music from Gregorian Chant to contemporary literature. The Choir performs a cappella and with all forms of accompaniment: piano, organ, instrumental, ensembles, and full orchestra. Repertoire varies from year to year.

VOCAL MUSIC COURSES**FRESHMEN WOMEN'S CHOIR** **H74030**

Grade: 9 5.0 Credits Year

Prerequisite: None

This course covers basic theory, harmony, sight-reading, phonetics, vocal techniques, ear training, and music appreciation. All styles of music are sung including music written for the female voice in unison or for two or three parts, as well as major works written for choirs of men and women (SATB). Repertoire varies from year to year.

MEN'S CHOIR **H74031**

Grades: 9-12 5.0 Credits Year

Prerequisite: None

This choir is open to all men. The course covers basic theory, harmony, sight-reading, phonetics, vocal techniques, tone production for the unchanged and changed voice, ear training, and music appreciation. All styles of music are sung, from glees to chants, in two, three, and four parts, as well as major works written for choirs of men and women (SATB). Repertoire varies

THEATER ARTS COURSES**DRAMA I** **H74040**

Grades: 9-12 5.0 Credits Year

Prerequisite: None

Activities in this introductory drama course promote spontaneity, creativity, self-confidence, body and vocal flexibility, concentration, cooperation and discipline. Exercises and assignments include group devising of original short play scripts, oral and written critiques, conflict resolution through dramatic role-play, storytelling, stage combat, clowning, improvisation, mock interviews, and persuasive speech. Students will perform scenes from Greek mythology, Shakespeare, commercial copy, daytime drama (soaps), and adaptations of classic literature. Students learn the basics of the art of theater performance including stage directions, voice projection, relaxation, line memorization techniques, and handling stage fright. Students examine scripts and build characters by combining their own life experiences with the demands of the texts they are studying. All students taking this course will

perform/participate in a fully produced play as part of Spectacle Theatre's season of productions.

DRAMA II: Exploring Theater History
H74041

Grades: 10-12 5.0 Credits Year
Prerequisite: Drama I

Through research, discussion, and practical application, students will understand theater as the reflection and evolution of the social, religious, political, and economic influences throughout history. Students actively journey through theater history by performing improvisations, monologues, and scenes from dance and ritual of Primitive Theater to Egyptian, Greek, Roman, Japanese, Medieval, Italian Renaissance, Elizabethan, Restoration, 19th Century Continental and American, 20th Century, and 21st Century Theater. Students will master acting styles, manners, and stage movement appropriate to each period and culture. Using the Acting with an Accent Audio programs of David Alan Stern and the International Phonetic Alphabet system, students will learn three dialects (Standard British, Irish, and American Southern) to further enhance character development. All students taking this course will perform/participate in a fully produced play as part of Spectacle Theatre's season of productions.

DRAMA SEMINAR: Advanced Acting and Performance Technique **H74042**

Grades: 11-12 5.0 Credits Year
Prerequisite: Audition/Teacher recommendation or successful completion of Drama II.

This advanced course first focuses on the study of acting as a craft through the practical exploration of theories and methods of creating character and atmosphere. By utilizing numerous approaches including those of Stanislavsky, Chekov, Hagen, Meisner, Morris, Yakim, and Viewpoints, students acquire a working knowledge of sense memory, objectives, obstacles, "magic if," psychological gesture, and emotional recall. Secondly, students are introduced to the principles and techniques of playwriting including plot structure, dramatic action, point of view, mood, character development, setting, written dialogue, and stage directions. Finally, the study of the fundamentals of directing, such as composition, movement, picturization, rhythm, and pantomimic dramatization prepares

students to confidently assume the director's duties in preparation for Senior Student-directed Plays. All students taking this course will perform/participate in a fully produced play as part of Spectacle Theatre's season of productions.

MUSICAL THEATRE: Acting, Song, and Dance **H74043**

Grade: 10-12 5.0 Credits Year
Prerequisite: Audition/Teacher recommendation or successful completion of Drama II.

The musical theatre performer must be a master of many styles of acting, singing, and dancing. This advanced course combines these separate disciplines into a complete program of study and training in all elements of the craft, including fundamentals of acting applied to musical theatre; script, score and character analysis; personalizing a performance; acting styles in musical theatre; and practical steps to pursuing a career. Through solo, partner, and group work, students will handle a wide range of performance conventions and training requirements unique to musical theatre while developing a clearly articulated methodology for integrating all of the elements of musical theatre into performance. Exercises and assignments include choosing audition material, how to use subtext and monologues to make the performance of a song more believable, phrasing from lyrics rather than the music, using facial expressions and gestures to communicate emotions, staging a song, and how to overcome stage fright. Students will also learn basic dance steps and choreographic styles universally used in musical theatre choreography. All students taking this course will perform/participate in Spectacle Theatre's annual Spring Musical.

DANCE **H72050**

Grades: 9-12 2.5 Credits Sem
Prerequisite: None

In this class, you will be dancing to popular music, Latin music, two-step, ballroom, swing and Broadway show tunes. The class is entirely a kinesthetic course, with no paper, pencils or books required. Tests will consist of performing the dance combinations in class once per week, with ample opportunity to practice and perfect beforehand. Students can take this class for two semesters. The first semester consists of teacher-choreographed combinations set to teacher-selected music, with a few opportunities

for group choreography. The second semester consists of student-choreographed combinations set to student-selected music. Each semester is exclusive of the other, and both may be repeated for multiple performing arts credits.

SPECIAL EDUCATION

Special Education student programs are selected in collaboration with the student, parents, the high school child study teams, and with input from teachers. The district program offerings include:

In-Class Resource Program (ICRP)

The In-Class Resource Program is designed to provide support services to classified students in the general education setting in the content areas of English, mathematics, science, and social studies. Two teachers, a special education teacher and a content area general education teacher, work collaboratively to instruct and assist students within the classroom environment. All students are expected to meet general education curricular requirements with the support of individualized instructional strategies and modifications.

Pull-Out Replacement Resource Program

The Resource Program is offered to students who experience difficulty with the rigor, pace and/or structure of mainstream academic subjects. Resource classes are offered in the following content areas: English, mathematics, social studies and science. Small group instruction is provided by highly qualified teachers who modify the general curriculum to meet the individual needs of students. Efforts are made to transition students into general education classes by teaching compensatory skills and strategies.

Support Program

Students in support class benefit from individual and small group instruction intended to provide compensatory skill development, remediation, pre-teaching of vocabulary and concepts, study skills, organizational strategies and reinforcement. Support class is typically not appropriate for students receiving in-class support.

Learning and Language Disability (LLD) Program

The LLD Program is designed to provide students who require greater academic and social support in the core academic subjects using a modified curriculum guide. As needed, students are provided with instruction in adult daily living, and vocational opportunities to acquire job related skills through the district's School-to-Work program.

Autism Program

The Autism Program prepares students to maximize achievement and skills according to their individual potential in the areas of language pragmatics and communication, social interaction, academic course work, functional life skills, and vocational skills. Academic course work is individualized within the program. Utilizing a behavioral approach, the program seeks to increase a student's independent functioning within the school, home, and community. Vocational programming is included, based upon individual student needs, through School-to-Work.

School-to-Work

The primary purpose of this class is to address the individual needs of the students in order to develop functional job related skills for adult life. This program will include instruction in communication for working as part of a group in order to participate on a job site, following written or oral directions, and asking for or offering assistance. Time on task, initiating, and following through to complete tasks will be emphasized. Student interests and talents will be examined to identify possible career paths. Specific job skills will be explored, as appropriate, for possible community based, supported, or sheltered placements. Opportunities within the school building will be explored, including tasks in the student services office, nurse's office, and in the school building in general. In addition, the student will develop a sense of responsibility, pride, and accomplishment by participating in the community of the school.

Adult Daily Living

The primary purpose of this class is to address the individual needs of the students in order to develop functional home living and leisure skills for adult life. This program include instruction in communication for working as part of a group in order to participate within a home setting, including following written or oral directions, asking for assistance and offering assistance. Time on task, initiating, and following through to complete tasks will be emphasized. Specific home based tasks such as: shopping, table setting, meal preparation, laundry, bed making, and cleaning chores will be modeled and practiced within the life skills lab setting and the community. Leisure skills will be explored to develop positive use of free time, including exploring individual or community-based opportunities for sports, music, art, movies, and/or crafts. In addition, the student will develop a sense of responsibility and accomplishment by independently completing home skills, as well as, becoming an active member within the community.

Bridges Program

The Bridges Program supports students' emotional, social, and academic needs, while offering them the opportunity to be part of the comprehensive high school. This program integrates inclusion in the general academic program with both a therapeutic component and related support classes.

ENGLISH

The study of English each year is a requirement for every high school student in New Jersey. Students completing the Princeton High School English program will read from diverse literature. They will write frequently for different purposes, using a process approach, including revision and editing for grammatical conventions. Students will also continue to develop their vocabulary, speaking, listening, writing and viewing skills.

The courses listed below are taught at the **9th grade** level and fulfill one year of the English graduation requirement.

English I
English 1
English as a Second Language/Transitional English (ESL only)

The courses listed below are taught at the **10th grade** level and fulfill one year of the English graduation requirement.

English II
English 2
English as a Second Language/Transitional English (ESL only)

The courses listed below are taught at the **11th grade** level and fulfill one year of the English graduation requirement.

English III
AP English
English 3
English as a Second Language/Transitional English (ESL only)

The courses listed below are taught at the **12th grade** level and fulfill one year of the English graduation requirement.

English IV
AP English
English 4
English as a Second Language/Transitional English (ESL only)

The courses listed below are English electives and are available to all grade levels. **These courses cannot be used as a replacement for a required English course.**

Film Appreciation	Video Production I, II
Media Studies	Journalism I, II
Filmmaking	Philosophy
Public Speaking	Multi-Media Special Effects
English I & II Plus	Academic Reading

ENGLISH I	H14010
Grade: 9	5.0 Credits
Prerequisite: None	Year

Required of all freshmen. This course lays the foundation for future course work at Princeton High School. English I introduces students to a variety of modes of expression and genres found in world literature. Major units include: autobiographical writings; story telling through myths, short stories and novels; dramatic, and journalistic and oral presentations of issues; the sounds and images of poetry and non-print media. Students write regularly using a process approach, learning how to vary their writing for different purposes. Vocabulary and grammar are integrated with the literature study

and writing.

ENGLISH I PLUS

Grade: 9 5.0 Credits Year
Prerequisite: None
Course eligibility: Teacher recommendation, 200 and below on the NJ ASK, C+ or below in previous English course

English I Plus offers selected students additional support for the work of the English I class. The English I curriculum will be re-enforced with particular attention given to reading comprehension, vocabulary development, writing skills, home-work, and research projects. The purpose of the Plus class is to enable students to achieve their potential by providing opportunities for supervised completion of their assignments, assistance with skill development, and motivational activities to inspire commitment. Students will also benefit from guidance group activities, enrichment field trips, and advisory activities.

TRANS ENGLISH/ESL IV

Grades: 9-12 5.0 Credits Year
Prerequisites: See below

ESL Transitional English/ESL IV offers literature study, vocabulary, composition, and speaking activities. The course provides an English program for non-native English speakers who have developed a working knowledge of the language, but have difficulty with the nuances of the language that are required in the standard English class. Reading selections and composition assignments will prepare students for success in the standard English curriculum.

ESL I

Grades: 9-12 10 Credits/2 Periods Year
Prerequisite: Placement testing by ESL staff

This English course is designed to help the students whose native language is not English. Emphasis is on developing basic English language skills including listening, speaking, reading, and writing. Fundamentals of grammar and basic sentence patterns are developed through a variety of activities. The stress is on developing ease and fluency in communicating in Standard American English and understanding United States culture. Students read abridged literary works by contemporary authors such as Tan, Angelou, and Corman. Placement in one of the four ESL levels is based on the student's results on a secondary-level English language

proficiency test designed for non-native English-speaking students. Students placing into the ESL program are required to take both sections of these courses. Students scoring above the minimum level of proficiency on the English language proficiency exam fulfill the requirement for exiting the ESL program.

ENGLISH II

H14020
Grade: 10 5.0 Credits Year
Prerequisite: English I

This course is required of all sophomores.

This course develops skills in interpretation, composition, oral presentation and discussion, vocabulary, and critical thinking. Readings include works by a wide variety of authors including Shakespeare, Remarque, Wiesel, and Fugard. Some of the readings and projects enhance the understanding of historical events such as the Holocaust. A process approach to writing incorporates the use of student and teacher responses, revision, and portfolio assessment.

ENGLISH II PLUS

H14021
Grade: 10 5.0 Credits Year
Prerequisite: None
Course eligibility: Teacher recommendation, 200 or below on NJ ASK, C+ or below in previous English course

English II Plus offers selected students additional support for the work of the English II class. The English II curriculum will be re-enforced with particular attention given to reading comprehension, vocabulary development, writing skills, home-work, and research projects. The purpose of the Plus class is to enable students to achieve their potential by providing opportunities for supervised completion of their assignments, assistance with skill development, and motivational activities to inspire commitment. Students will also benefit from guidance group activities, enrichment field trips, and advisory activities.

ESL II

H14920
Grades: 9-12 10 Credits/2 Periods Year
Prerequisite: Placement testing by ESL staff

This course develops the four basic language skills and expands upon the grammar learned previously. The students also analyze various forms of non-verbal communication in the USA as well as cultural idioms. Reading comprehension is emphasized through short

stories, novels, and plays. In addition to improving reading skills, the course emphasizes vocabulary development and writing responses to themes presented in the readings. Placement in one of the four ESL levels is based on the student's results on a secondary level English language proficiency test designed for non-native English-speaking students. Students placing into the ESL program are required to take both sections of these courses. Students scoring above the minimum level of proficiency on the English language proficiency exam fulfill the requirement for exiting the ESL program.

ENGLISH III

Grade: 11 5.0 Credits
Prerequisite: English II

Students of American Literature will read, discuss, analyze, and write about a range of American literary works (early to recent, fiction and non-fiction) in several genres (novels, plays, essays, autobiographies, poems, and short stories). Students will write in a variety of modes, including critical essays and personal narratives. Grammar and usage are taught as needed. Vocabulary study parallels class readings.

ESL III

Grades: 9-12 10 Credits/2 Periods Year
Prerequisite: Placement testing by ESL staff

This class focuses on speaking and writing using more complex English grammar and formal and colloquial vocabulary. Students read, discuss, and analyze classical and contemporary literature. Academic writing is an integral part of this class. Placement in one of the four ESL levels is based on the student's results on a secondary level English language proficiency test designed for non-native English speaking students. Students placing into the ESL program are required to take both sections of these courses. Students scoring above the minimum level of proficiency on the English language proficiency exam fulfill the requirement for exiting the ESL program.

AP ENGLISH III

Grade: 11 5.0 Credits Year
Prerequisite: B+ or better in English II

Students in this course will be expected to handle increasingly sophisticated materials and develop skills in the analysis and evaluation of literature. Students need patience with texts,

time to do the many varied assignments, and dedication to individual growth as users of the art of language. Among the authors represented are Hawthorne, Miller, Emerson, Poe, Wharton, Fitzgerald, Hemingway, Thoreau and Whitman. Writing will be extensive and frequent. **Princeton High School expects that all students enrolled in an AP Course will take the AP Exam.**

ENGLISH IV

H14040
Grade: 12 5.0 Credits Year
Prerequisite: English III or AP English III

English IV prepares students for college level courses through close reading, discussion, and writing related to works of literature such as *Things Fall Apart*, *Oedipus the King*, a Shakespearean play, the Arthurian legend, Romantic poetry, and various novels. The essential frame for the course is the cycle of the hero's adventure. Beginning with a study of creation myths, students will examine the human quest to know one's self and the world. By the end of the year, students will connect modern writings with this primal quest, thus readying themselves for their own journeys beyond high school. Emphasis is given to writing coherent, specific, and grammatical essays. Opportunity for creative and personal writing, including the college application essay, is also provided.

AP ENGLISH IV

H14041
Grade: 12 5.0 Credits Year
Prerequisites: B+ or better in English III

Major emphasis is on British literature, although some choices in Continental literature are included. Supplementary reading, to be done in addition to the regular class assignments, allows for a broader range of choices. Students who take this course study the literature in depth and write analytical and expository essays. Close analysis of poetry is a major part of this course. **Princeton High School expects that all students enrolled in an AP course will take the AP exam.**

BILINGUAL SUPPORT

H14942
Grades: 9-12 2.5 Credits Sem
Prerequisites: Placement testing ESL staff

In this class students in the ESL program receive individual academic support from the ESL staff for their various subject area classes. This class is scheduled in addition to their ESL class.

HSPA ENGLISH 12

Grades: 11-12 2.5 Credits

H12001

Sem

Prerequisite: Required for students who score below 200 on the HSPA Language Arts requirement.

This course is designed to assist students to pass the HSPA in reading and writing, either through the administered test in 11th grade or through the AHSA process in the 12th grade. Particular emphasis will be placed on remediating identified individual skill deficiencies in reading and writing. In reading, students will be expected to read four types of text found on the HSPA and write a response to an open-ended question. In writing, students will practice revising and editing student writing as well as practice three kinds of writing: narrative, analytic, and persuasive. Students will also be required to address three different audiences in their writing: themselves, the school, and the community. **This course cannot be used to fulfill the English requirement for graduation and may not be elected.**

GREAT BOOKS

Grades: 10-12 2.5 Credits

H12002

Sem

Prerequisite: None

Great Books is a semester elective course in which students read a selected number of texts in both Eastern and Western literature and philosophy. The texts represent the best of humanity's thinking and writing throughout the ages and are those texts which have had a profound influence on humankind. Although the texts represent a challenge, the rigor of the course will derive from the seminar discussion format. Questioning will be encouraged as the texts present ideas that have intrigued man throughout the centuries. Students will be expected to prepare for the class on a daily basis, write papers on the readings, and contribute to the discussion. Possible authors/texts include: Plato, Aristotle, Dante, Lucretius, Machiavelli, Montaigne, the TAO TE CHING, and the BHAGAVAD GITA. **Successful completion of this class fulfills 2.5 credits of the Visual, Performing, or Practical Arts requirement.**

MEDIA STUDIES

Grades: 9-12 2.5 Credits

H12003

Sem

Prerequisite: None

Media Studies is a theoretical and practical course which teaches students how to analyze

and decode the complicated messages of mass media, including television, radio, magazines, advertisements, newspapers, and films. The goal of this course is not to teach students what to think, but rather how to think about the media. Emphasis is placed upon critical viewing and thinking skills, as well as the creation of student media products. Students will learn how to refute stereotypes and uncover embedded or biased messages related to race, gender, ethnicity, age, disability, and socio-economic levels. Students will review research studies on issues such as violence in the media and the blurring of news and entertainment. It is expected that students will participate in class discussions, projects, and hands-on activities. There is a strong emphasis on analytical writing in this course. **Successful completion of this class fulfills 2.5 credits of the Visual, Performing, or Practical Arts requirement.**

PHILOSOPHY

Grades: 9-12 2.5 Credits

H12004

Sem

Prerequisite: None

Immersing students in critical thought, this course will serve as an introduction to philosophy. The course begins with the foundation of philosophy, logic. Students will learn the elements of a logical argument, how to symbolize arguments to evaluate them objectively, and how to construct and use logical proofs. From there, students will engage with an overview of the critical pillars of both Eastern and Western philosophy, both through primary texts of philosophy and through critical reading of literature through a philosophic lens. **By the end of the course, students will take a practical approach to philosophy, applying various schools of moral philosophy to real-world problems.** **Successful completion of this class fulfills 2.5 credits of the Visual, Performing, or Practical Arts requirement.**

JOURNALISM I: An Introduction **H12005**

Grades: 9-12 2.5 Credits

Sem

Prerequisite: None

Students in this course will learn to write and analyze the traditional core forms of journalism: news stories, feature stories, sports stories, the opinion column, and the editorial. While writing these forms, students will also study how codes of ethics and press law guide journalistic practice. Students will practice journalistic skills such as copyediting, interviewing, and meeting

deadlines. The course relies on the daily newspaper and online publications, in addition to a class text, to inspire this introduction to the fundamentals of journalism. **Successful completion of this class fulfills 2.5 credits of the Visual and Performing Arts requirement.**

JOURNALISM II **H12006**
Grades: 9-12 2.5 Credits Sem
Prerequisite: Journalism I

This course will provide students with the opportunity to practice journalism skills by: researching articles through the internet; writing for publications for the various school venues through community outlets; having student writing critiqued by professional journalists; participating in video conferences; and interacting with professional journalists through e-mail or forums such as those provided by CNN. It is expected that students will use class time to complete course projects as well as to complete assignments for school publications. The format will be that of a workshop, and assignments will be individualized. **Successful completion of this class fulfills 2.5 credits of the Visual and Performing Arts requirement.**

WRITING WORKSHOP **H12008**
Grades: 9-12 2.5 Credits Sem
Prerequisite: None

A laboratory approach to writing gives students the time and freedom to explore many forms of writing and to experience all stages of composing. The class serves as an immediate audience and as a support group in a relaxed, productive setting. Emphasis is on the writer's own personal process of writing rather than on rigid forms. Requirements are a genuine interest in writing, a willingness to share writing with other students, and the keeping of a writer's journal. Because the writers decide on the forms studied within a semester, every semester is unique. Students may enroll for one or two semesters. **Successful completion of this class fulfills 2.5 credits of the Visual, Performing, or Practical Arts requirement.**

CONTEMPORARY LITERATURE **H12009**
Grades: 10-12 2.5 Credits Sem
Prerequisite: None

In this class, students will read novels, drama, and poetry from the later part of the twentieth century in order to understand forces and

influences which shape modern life. There will be an emphasis on American and international authors to enable students to examine the human condition. Contemporary concerns about the individual, family, race, and gender will provide a focal point. National issues surrounding diversity and culture will also be addressed. **Successful completion of this class fulfills 2.5 credits of the Visual, Performing, or Practical Arts requirement.**

MULTI MEDIA SPECIAL EFFECTS **H12011**
Grades: 9-12 2.5 Credits Sem
Prerequisite: None

In this class, students will explore unlimited creative possibilities for producing special effects. They will use software that efficiently produces motion graphics for film, video, multimedia, and the Web. The software will enable students to integrate with other editing tools to produce professional results. **Successful completion of this class fulfills 2.5 credits of the Visual, Performing, or Practical Arts requirement.**

FILM APPRECIATION **H12010**
Grades: 9-12 2.5 Credits Sem
Prerequisite: None

Students will be exposed to approximately ten films representing the history of film, domestic and foreign film, and a variety of genres. Films will be viewed in their entirety, and students will write papers in response to the films. Genres studied may include: silent comedy, the musical comedy, film noir, the adventure film, epic films, and mystery/suspense films. The course will focus both on directors and their achievements, and on great performances by individual actors and actresses. Students will learn the language of film analysis and read examples of film criticism. **Successful completion of this class fulfills 2.5 credits of the Visual, Performing, or Practical Arts requirement.**

VIDEO PRODUCTION I **H12012**
Grades: 9-12 2.5 Credits Sem
Prerequisite: None

This course introduces the student to the basics of video production including: camera operation, lighting, sound recording, crew positions, and editing. Students will work in teams and produce a variety of short projects aimed at developing style and proficiency. Shooting and editing will be done on digital

systems both in the studio and "on location." Completed projects will be eligible for review and acceptance to "Video PHS" for broadcast. Content issues will be explored, and technical skills will be developed. **Successful completion of this class fulfills 2.5 credits of the Visual, Performing, or Practical Arts requirement.**

VIDEO PRODUCTION II **H12013**
Grades: 9-12 2.5 Credits Sem
Prerequisite: Video Production I

This course allows students to expand and practice the skills learned in Video Production I. Students will be required to bring two projects to completion, beginning with written treatments and scripts through shooting scripts, technical production, and post-production. Documentary, news magazine, interview, avant-garde, sports journalism, and other styles may be explored. Students will critique and assist each other in completion of projects. Advanced techniques in directing, lighting, camera operation, and sound recording will be learned and applied. Shooting and editing will be done on digital systems both in the studio and "on location." Completed projects will be eligible for review and acceptance to "Video PHS" for broadcast. Those wishing to prepare an admission portfolio for college or technical schools will be assisted and advised throughout this course. **Successful completion of this class fulfills 2.5 credits of the Visual, Performing, or Practical Arts requirement.**

FILMMAKING **H12015**
Grades: 9-12 2.5 Credits Sem
Prerequisite: None

Special attention will be paid in this course to learning the elements of shooting in the film style as well as translating literature into a visual medium. Students can produce either documentary or dramatic films, and both short subject and "Feature Length" will be possible. Film crew positions will be assigned as students assist each other with projects. Strict adherence will be paid to writing treatments, scripts and shooting scripts, directing talent for film, setting realistic shooting schedules, and the elements of budgeting a film. Completed projects will be eligible for review and acceptance to "Video PHS" for broadcast. Those wishing to prepare an admissions portfolio for college or technical schools will be assisted and advised throughout this course. **Successful completion of this**

class fulfills 2.5 credits of the Visual, Performing, or Practical Arts requirement.

PUBLIC SPEAKING **H12016**
Grade: 9-12 2.5 credits Sem
Prerequisite: None

Students in Public Speaking will learn the basics of speaking formally and informally in front of a group. Initial experiences will provide students with brief opportunities to present themselves in front of a group. Throughout the course, emphasis on voice, tone, eye contact, delivery, projection, and use of note cards will prepare students for frequent and longer speaking experiences. The semester will culminate in formal speaking projects which will include debate, speaking on a panel, and formal speeches using research. **Successful completion of this class fulfills 2.5 credits of the Visual, Practical and Performing Arts requirement.**

CRITICAL READING & WRITING **H12025**
Grades: 9 & 10 2.5 credits Sem
Prerequisite: None

This course is aimed at strengthening reading and writing skills, building vocabulary, developing research and study skills and improving students' ability to read with a writer's pen, and write with a reader's eye. A special feature of the course is the integration of reading, writing and study skills that are required of the successful high school student. The course will also emphasize knowledge of language conventions that are essential to effective reading, writing and speaking. Students will have the opportunity to demonstrate their learning through a variety of formal and alternative assessments. Assessments will be based on, but not limited to rubrics adapted from the PARCC/Common Core State Standards scoring rubric. **Successful completion of this class fulfills 2.5 credits of the Visual, Performing, or Practical Arts requirement.**

MATHEMATICS

The math courses at Princeton High School are designed to meet the needs of all students at all levels of development. All students must successfully complete three years (15 credits) in mathematics to be eligible for graduation. One of these courses must be a geometry course.

The Math Department encourages all students to take a minimum of one mathematics course each year. The Math Department also encourages students to take every opportunity they can to develop their talent in mathematics. The department strongly recommends that students, in scheduling their mathematics courses, adhere to the course and level recommendations made by the stated prerequisites. The Mathematics Department would also like to see students, in addition to their math courses, investigate the opportunities available in computer programming including Visual Basic, Introduction to Computer Science using Java, Object Oriented Programming Using Java, AP Computer Science in Java, or Algorithms and Data Structures.

Many courses will be using the TI-84 graphing calculator on a regular basis. Students would benefit from acquiring their own calculator so they can store information and use it as they progress through their coursework. Calculators will be provided for classroom activities **ONLY**.

The Mathematics Department opens opportunities for students to advance a level. Students should review the criteria for advancement of a course level. There is an approval process that must be discussed with student's counselor and approved by department supervisor.

MATHEMATICS COURSES

Co-enrollment of mathematics courses:
Due to the sequential nature of mathematics, the following are the only courses that may be taken concurrently: Math PLUS classes, HSPA Math, AP Statistics, Intro to Statistics and Discrete Mathematics. Computer Science courses (Python Programming, Intro to Computer Science Using Java, Object Oriented Programming Using Java, AP Computer Science in Java) can be taken concurrently with mathematics courses but must be taken sequentially with other Computer Science courses. Geometry and Algebra II may also be taken concurrently **in grades 10 through 12 with the department supervisor approval and an A in PHS Algebra I.**

HSPA MATH 12 **H24081**
Grades: 12 2.5 Credits Sem
Prerequisite: Students who have scored below 200 on the Math portion of the HSPA are mandated to take this course until they meet

HSPA and/or AHSA proficiency.

HSPA Math is a required course for students who demonstrate a need for the reinforcement of the basic skills and concepts required to pass the 11th grade High School Proficiency Assessment (HSPA 11). The objective of the course is to provide the students with the necessary prerequisite skills unique to the HSPA curriculum. The student will be provided with skills and strategies that will enable him/her to gain confidence in working with word problems, to move from concrete to abstract presentation of problems, and to develop and apply estimation skills. This course will focus on preparing students in the clusters identified on the HSPA. **This course cannot be used to fulfill the math requirement for graduation and may not be elected.**

ALGEBRA I **H24010**
Grades: 9-12 5.0 Credits Year
Prerequisites: Mandatory for any student scoring C- or below in Algebra 8.

This is a standard course in Algebra I. It makes the transition from the specifics of arithmetic to the generalizations of higher math. Topics include problem-solving, patterns and functions, data analysis, equations and inequalities, as well as other traditional Algebra I topics.

ALGEBRA I PLUS **H24011**
Grades: 9-10 5.0 Credits Year
Prerequisites: Students taking Algebra I who have been identified needing additional support through a criteria matrix.

The purpose of the PLUS class is to enable students to achieve their potential by providing academic support in identified areas of need. These areas will be assessed and progress will be monitored to show the growth that supports their success in Algebra I.

GEOMETRY I **H24021**
Grades: 9-12 5.0 Credits Year
Prerequisites: Successful completion of Algebra I. Student with a C- or below in Algebra I must be enrolled in Geometry Plus.

The study of geometry includes triangles and their congruence, circles, spheres, quadrilaterals, similarity of polygons, characterizations of sets and construction, transformational geometry, and plane coordinate geometry.

GEOMETRY I ACCELERATED H24022

Grades: 9-10 5.0 Credits Year

Prerequisites: An A in middle school Algebra I or high school Algebra I and Benchmark Assessments, or B or above in Grade 8 Accelerated Algebra II.

Geometry I Accelerated is a rigorous course which covers most of the topics of plane geometry, with additional emphasis on the more complex theorems of solid geometry. The nature of geometric proofs is emphasized. A student who chooses this course should be aware of the following: the range of topics is greater and in more depth than a non-accelerated course, and the pace is faster.

GEOMETRY I PLUS H24020

Grades: 10-12 5.0 Credits Year

Prerequisites: Students taking Geometry I who have been identified needing additional support through a criteria matrix.

The purpose of the PLUS class is to enable students to achieve their potential by providing academic support in identified areas of need. These areas will be assessed and progress will be monitored to show the growth that supports their success in Geometry I.

ALGEBRA II ELEMENTS H24030

Grades: 11-12 5.0 Credits Year

Prerequisites: Successful completion of Geometry Elements or below C- in Geometry I.

Algebra II Elements will review many of the topics learned in Algebra I. Students will also study linear and quadratic functions, direct variations, radicals, and other related subjects. Concepts may be developed using the graphing calculator.

ALGEBRA II H24031

Grades: 9-12 5.0 Credits Year

Prerequisites: C- or above in Geometry, or B- or below in Geometry Accelerated.

In Algebra II, students will cover traditional material on inequalities, graphing, functions, rational exponents, factoring, systems of equations, rational expressions, solutions of equations, quadratic relations, exponential function and logarithms.

ALGEBRA II ACCELERATED H24033

Grades: 9-12 5.0 Credits Year

Prerequisites: A in both Algebra I and

Geometry, or B or above in Geometry Accelerated.

Algebra II Accelerated is a rigorous course, which covers all the topics of standard Algebra II. Additional emphasis is placed on the concepts of functions, analysis, conics, logarithmic and exponential functions, and matrices. A student who chooses this course should be aware of the following: the range of topics is greater and in more depth than a non-accelerated course, and the pace is faster. Additional topics covered: conic sections, counting methods, probability, data analysis, statistics, sequences and series.

ALGEBRA II PLUS H24032

Grades: 10-12 5.0 Credits Year

Prerequisites: Students taking Algebra II who have been identified needing additional support through a criteria matrix.

The purpose of the PLUS class is to enable students to achieve their potential by providing academic support in identified areas of need. These areas will be assessed and progress will be monitored to show the growth that supports their success in Algebra II.

APPLICATIONS OF ADVANCED ALGEBRA**H24040**

Grade: 11-12 5.0 Credits Year

Prerequisites: Successful completion of Algebra II or Algebra II Elements.

Algebra for students wishing to further explore patterns and relationships which occur through real world applications. Curriculum topics will include, but not be limited to, mathematical reasoning, solving problems using Venn Diagrams, math in retail sales, uses for radicals and exponents, solving formulas in electronics and other concepts relevant to the 21st century.

FOUNDATIONS OF PRE-CALCULUS
H24050

Grades: 10-12 5.0 Credits Year

Prerequisites: C or below in Algebra II and completion of Geometry or an A in Algebra II Elements.

Foundations of Pre-Calculus will review many topics from Algebra II. It will also include a full study of functions (linear, polynomial, rational, exponential and logarithmic) and their graphs, as well as an introduction to trigonometry.

PRE-CALCULUS**H24051**

Grades: 10-12 5.0 Credits Year
Prerequisites: C- or above in Geometry, or B- or below in Geometry Accelerated AND C+ or above in Algebra II, or B- or below in Algebra II Accelerated.

Pre-Calculus emphasizes the study of elementary functions and the sketching of their graphs. Functions are covered intensively. Trigonometry and applications are fully developed in this course. Other topics include logarithmic, exponential and inverse functions.

PRE-CALCULUS ACCELERATED H24052

Grades: 9-12 5.0 Credits Year
Prerequisites: B or above in Algebra II Accelerated, or A in Algebra II and B or above in Geometry Accelerated, or A in Geometry

Pre-Calculus Accelerated is a rigorous course, which includes the topics developed in pre-calculus. It also includes selected topics in analytic geometry, probability, sequences and series, vectors, polar coordinates, parametric equations, limits, and an introduction to calculus. A student who chooses this course should be aware of the following: the range of topics is greater and in more depth than a non-accelerated course, and the pace is faster.

CALCULUS H24060

Grade: 11-12 5.0 Credits Year
Prerequisites: Successful completion of Pre-Calculus, or C or above in Foundations of Pre-Calculus.

Calculus is designed to introduce concepts of differential and integral calculus, with the emphasis on a gradual, thorough approach. Use of a graphing calculator is integrated throughout the course.

AP CALCULUS AB H24061

Grades: 11-12 5.0 Credits Year
Prerequisite: A in Pre-Calculus, or C+ or above in Pre-Calculus Accelerated.

This course covers the rate of change of a function, differentiation of algebraic and transcendental functions, plane analytical geometry, and integrals. Use of a graphing calculator is integrated throughout the course. This course is designed to prepare students to take the CEEB AP Calculus AB examination. Success on this exam could mean advanced placement for up to

two semesters of college calculus. **Princeton High School expects that all students enrolled in an AP course will take the AP exam.**

AP CALCULUS BC**H24062**

Grades: 9-12 5.0 Credits Year
Prerequisite: B+ or above in Pre-Calculus Accelerated.

In addition to the topics of Calculus AB, students in this course will study differential equations, sequences, series, polar coordinates, and parametric equations. Use of a graphing calculator is integrated throughout the course. This is a rigorous course designed to prepare the student to take the CEEB AP Calculus BC examination. Success on this exam could mean advanced placement for up to three semesters of college calculus. **Princeton High School expects that all students enrolled in an AP course will take the AP exam.**

MULTIVARIABLE CALCULUS AND LINEAR ALGEBRA H24063

Grades: 10-12 5.0 Credits Year
Prerequisite: AP Calculus BC with a B or better

The course covers the typical topics in a course in three dimensional, multivariable calculus, including but not limited to vector valued functions, multivariant functions and their derivatives, multiple integrals, techniques and theorems for the integration of vector fields. Topics from Linear Algebra will include linear transformations, Subspaces of R, linear spaces, orthogonality, determinants, Eigenvalues and Eigenvectors, and linear differential operators.

INTRODUCTION TO STATISTICS, DATA ANALYSIS AND PROBABILITY H22070

Grade: 12 2.5 credits Sem
Prerequisite: C or above in Algebra II.

Foundations of Precalculus or Precalculus may be taken concurrently. This course would serve as a non-rigorous first course in statistics, data analysis and probability with a strong emphasis on applications and the thinking behind data gathering and interpretation, rather than on theory and computation. (This course is not intended to prepare students for the AP exam in Statistics.) Students will learn about statistics and data by working with data. The use of graphing calculators will be incorporated throughout the course. This approach reflects the way real-life statisticians contribute to our

understanding of the world. It will also help students be more discerning consumers of statistics, teaching them to look closely at what the numbers from surveys, election polls, and medical studies are really saying.

AP STATISTICS**H24072**

Grades: 11-12 5.0 Credits Year
Prerequisites: B or above in Algebra II.

Pre-Calculus may be taken concurrently. This course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. It is a college-level course and will follow the syllabus recommended by the College Entrance Examination Board. This course is designed to prepare students to take the CEEB AP Statistics examination. **Princeton High School expects that all students enrolled in an AP course will take the AP exam.**

DISCRETE MATHEMATICS**H22071**

Grade: 12 2.5 Credits Sem
Prerequisites: C or above in Algebra II.

Foundations of PreCalculus or PreCalculus may be taken concurrently. Discrete mathematics is the study of mathematical topics which deal with things that can be counted using whole numbers, rather than continuous sets of numbers (like those covered in Algebra, Trigonometry and Calculus). The focus of this course will be on practical applications of discrete mathematics, particularly to issues of social choice and decision-making. Students will explore the connections among mathematical topics and real-life events and situations, while sharpening their problem solving, mathematical reasoning and communication skills.

COMPUTER SCIENCE COURSES

All computer science courses may be applied toward the Practical Arts requirement for graduation.

**ALGORITHMS
PROGRAMMING****USING****PYTHON
H24073**

Grades: 9-12 5.0 Credits Year
Prerequisites: B or above in Algebra I and enrolled in Geometry or higher.

Python is one of the most successful Windows programming tools on the market. This web-

based programming language course is the first course in a sequence of progressively more difficult computer language courses offered at PHS. This course lays the groundwork for students to eventually study Object Oriented Programming (OOP) languages such as Java.

**INTRODUCTION TO COMPUTER SCIENCE
USING JAVA ACCELERATED****H22074**

Grades: 10-12 2.5 Credits Sem
Prerequisites: B or above in Algebra I and ability to program at least one language.

Students in this course will learn the computer language Java and the concepts of object-oriented programming, modularization of code, and data encapsulation. Students will write programs featuring decision statements, functions, loops, arrays, structures, and classes. Out of class computer time is required. This course is a prerequisite for AP Computer Science Using Java.

OBJECT ORIENTED PROGRAMMING**USING JAVA ACCELERATED****H22075**

Grades: 10-12 2.5 Credits Sem
Prerequisite: C+ or above in Introduction to Computer Science Using Java.

This is a continuation of Introduction of Computer Science Using Java. Topics include inheritance, polymorphic functions, run time binding, and contained classes. Out of class computer time is required. This course concentrates on the advanced features of Java.

AP COMPUTER SCIENCE IN JAVA**H24076**

Grades: 10 -12 5.0 Credits Year
Prerequisites: B or above in Object Oriented Programming Using Java Accelerated.

The objective of this course is to prepare students for the Advanced Placement Examination in Computer Science. Out of class computer time is required. Topics will include the fundamentals of data structures (stacks and queues, linked lists and trees), classic algorithms in sorting, and searching and analysis of run times. **Princeton High School expects that all students enrolled in an AP course will take the AP exam.**

ALGORITHMS & DATA STRUCTURES**H24074**

Grades: 10 -12 5.0 Credits Year
Prerequisites: Completion of AP Computer Science

This course surveys the most important algorithms and data structures in use on computers today. Particular emphasis is given to algorithms for sorting, searching and string processing. Fundamental algorithms in a number of other areas are covered as well, including geometric and graph algorithms. The course will concentrate on developing implementations, understanding their performance characteristics, and estimating their potential effectiveness in applications.

NON-TRADITIONAL ACADEMIC PROGRAMS

The non-traditional academic programs at PHS are designed to extend the learning opportunities beyond courses offered in the standard curriculum and to encourage non-traditional learning opportunities. The programs described in this section offer students the chance to participate in community-based experiential learning, independent study, support classes, tutorial programs, and interdisciplinary courses as well as to improve their own interpersonal skills through leadership and communication enhancement programs.

CAREER AWARENESS/COMMUNITY SERVICE H94010

Career Awareness/Community Service (CA/CS) is an excellent opportunity for students to explore career and community service interests in their own community. The program is facilitated through the Learning in the Community staff. Sophomore students are able to choose from a broad array of projects led by experienced junior or senior leaders. The program requires a personal journal, a two-page midterm essay, a final presentation, a career survey discussion session, and on-site work, which is monitored by the program staff. CA/CS experience may also lead to internships, jobs, and leadership opportunities within the Learning in the Community Program.

This program fulfills the career awareness/community service graduation requirement.

BIG BROTHER/BIG SISTER **H92011**

Grade: 12 5.0 Credits Year
Prerequisites: Application and interview process

This course trains selected seniors to serve as peer resources for other students, particularly

for students who may have problems related to adolescence and adjustment to school. The training for the seniors provides a knowledge of individual and group communication skills and tutoring techniques. Senior leaders meet in daily sessions that prepare them to assist their Little Brother/Little Sister in his/her development of self-awareness, self-esteem, communication, and problem-solving skills. Those personal meetings are conducted on an individual basis. The student leaders are selected through an application and interview process during the spring of their junior year.

PEER GROUP PROGRAM	H94012
Grade 9	No Credit
	Year

All freshmen are required to participate in the Peer Group Program at Princeton High School. The program is designed to support the freshmen in their transition into the high school. In Peer Group, freshmen have the opportunity to meet new friends and discuss topics relevant to teens in a fun and relaxing group atmosphere. The meetings are facilitated by Senior Peer Leaders who attend a daily training class and a summer retreat. Topics for discussion include, but are not limited to: friendship, trust, romantic relationships, music, substance abuse, stress, gossip, diversity, and harassment. Freshmen are assigned randomly to groups of approximately 14 to 16 members and the meetings begin in the first few weeks of the fall semester.

PEER GROUP LEADER **H92013**

Grade: 12 5.0 Credits Year
Prerequisites: Application and interview process

This program provides selected students with knowledge and experience in group dynamic and leadership skills. Students will be in training sessions five times per week and will lead discussion groups once a week with freshmen in first and second semesters. Attendance at several parent-student evening activities is also required. The Peer Group program offers a valuable orientation to the freshmen students. Peer Group discussions are led by high school seniors on Wednesday afternoons. The student leaders are selected through application and interview processes during the spring of their junior year.

**AM TECHNICAL SCHOOL
PM TECHNICAL SCHOOL**

Grades: 11-12 20.0 Credits Year

Prerequisite: Application process

This course meets the practical arts requirement.

The Board of Education of the Technical Schools in the County of Mercer was established by the Mercer County Board of Chosen Freeholders on June 18, 1968. The ultimate aim of the Technical Board is "to provide vocational education that will guarantee every man, woman, and child in Mercer County the right to obtain all the occupational education he or she needs or desires and is capable of acquiring."

The main purpose of these courses is to prepare students for further education upon graduation and initial employment in their chosen occupational field. Mercer County Technical Schools operate as the "vocational wing" of each of the high schools in the County and endeavor to expand course offerings, not to supplement existing courses. Students will continue to identify with their home school and participate in their co-curricular activities, as well as take their academic courses at the home school.

If students choose to attend, they will spend part of the day at Princeton High School and part of the day at the Technical School. Twenty credits are awarded upon successful completion of the Technical School course. Students are required to take English and Physical Education at the High School.

One and two year courses are offered at either the Sypeck Center, Assunpink Center, MCCC Tech Prep Program or the School of Performing Arts at MCCC. Students should review a list of options with their school counselor. A visit to the Center can be arranged to get further information of the programs offered.

INDEPENDENT STUDY (BY DEPARTMENT)

Grades: 11-12 Credits: 2.5 or 5.0 Sem/Year

Prerequisite: None

The Independent Study Program is available for those students who are looking for an additional academic opportunity for in-depth study beyond the PHS course offerings or have a desire to fulfill a course need that is not available in the current PHS curriculum. **An Independent Study may not be employed to replace a course that is offered in the current PHS**

H94018**H94019****curriculum.**

The following steps are required for the proper completion of an Independent Study (IS):

1. A Princeton High School faculty member must serve as the IS advisor. Faculty members are under no obligation to serve as an IS advisor; they do so voluntarily.
2. The student and his/her IS advisor must agree on the work to be completed and graded, the credits to be awarded, and the time to be allotted. An Independent Study Contract (available in the Guidance Office) listing the appropriate details must then be completed. The student is responsible for getting the contract approved and signed by his/her parent or guardian, the department supervisor, his/her guidance counselor, the director of guidance, and the principal. The contract is kept on file in the Guidance Office until the completion of the IS.
3. Credits will be awarded upon completion of the IS course or project. One credit may be granted for every 35 hours of project work or course contact time. A time log must be maintained, verified and presented when the IS is completed. All evaluations must be reviewed and approved by the IS advisor.
4. In order for students to receive a final grade and credit for an independent study, students will be required to complete a performance assessment at the conclusion of the Independent Study before an advisory panel consisting of teachers and administrators.

HIGH SCHOOL PROGRAM AT PRINCETON UNIVERSITY H92021

Grades: 11-12 3.0 Credits Sem

Prerequisites: ALL students submitting an application must attend a mandatory meeting with the Director of Guidance.

Rising junior and senior students may apply for courses in mathematics, biology, physics, chemistry, world languages, computer science, and music (when special talent can be demonstrated). Students must have exhausted all the courses the high school has to offer in the subject that they are applying to take a course at Princeton University. **All applications must go through the PHS Guidance Department.** Princeton University establishes requirements

that are firm and cannot be waived. The University **does not** issue credits or transcripts to high school students. Princeton High School awards high school credits for these courses. Grades are calculated into the student's grade point average. Students may pick up applications in the guidance office for fall courses in April and for spring courses in November. **Students are cautioned to seriously consider the impact a university schedule may have on accommodating their desired high school program, especially because they are semester-based.**

PHYSICAL EDUCATION & HEALTH

Physical Education or Health courses are required in each quarter. Freshmen, sophomores, juniors, and seniors will be placed in 3 quarters of physical education and 1 quarter of health per year. Sophomores will take 3 quarters of physical education and one of Driver Education Theory. According to New Jersey state law, students must be enrolled and pass one year of physical education and health for each year they are enrolled in a New Jersey public high school.

CO-ED PHYSICAL EDUCATION

Grades: 9-12 4 credits Year
Prerequisite: None

The Physical Education program is designed to offer students opportunities to develop interest and skill in a variety of physical activities. Individual activities aim to develop basic skills, coordination, agility, and knowledge of rules as well as to stimulate an interest in lifelong sports, recreation, and fitness activities. Individual activities include Badminton, Archery, Jogging, Dance, Tennis, Conditioning and Weight Training, Mountain Biking, Recreational Games, and Track and Field.

Team activities aim to develop fundamental team skills and techniques, alertness, endurance, safety, knowledge of rules, and sportsmanship. Team activities include Flag Football, Ultimate Frisbee, Soccer, Basketball, Floor Hockey, Volleyball, Softball, and Indoor Soccer.

Students in Grade 9 will participate in Health, as a component of their PE class.

The program for freshmen health focuses on the acquisition of basic positive health habits.

Topics to be covered include emotional and social health, stress management, substance abuse education, and human sexuality.

Students in Grade 10 will participate in Driver's Education, as a component of their PE class. This course gives students an understanding of automobile indicators, controls, and safety equipment. Students learn to maneuver the automobile and will discuss driver strategies and emergency situations. Instruction also addresses current laws regarding driving under the influence of alcohol and illegal substances. The New Jersey Written Driver Examination will be administered at the conclusion of the course.

Students in Grade 11 & 12 will participate in Health, as a component of their PE class.

This program is designed to encourage students to examine contemporary issues in public and personal health and to develop their own values through group discussions. The following are examples of the topics explored on a rotating two-year cycle: human sexuality and family living, infectious diseases, life-cycles and issues of aging, substance abuse, teenage suicide, stress management, depression, ecology, and environmental safety.

TEEN PEP **H92014**
Grades: 11-12 5 Credits Year
Prerequisite: 9th, 10th Health and application is required.

This is a full year course in sexual health education. Selected students will be trained to be leaders and peer educators and will conduct outreach workshops for peers, parents and educators. Workshops will address the following topics: postponing sexual involvement, pregnancy prevention, HIV/AIDS prevention, STI (Sexually Transmitted Infection) prevention, parent-teen communication, sexual harassment, date rape, dating violence prevention, homophobia reduction, puberty education, and other sexual health concerns. Workshops will be presented during the designated class periods with outreach to 9th & 10th grade classes that meet at that time. This elective course is open to members of the junior and senior classes.

BUSINESS & TECHNOLOGY

All the courses listed in this department satisfy the **practical arts** graduation requirement. **All computer science courses** (listed and described in the mathematics department section) may be applied toward the fulfillment of the **practical arts** graduation requirement.

Summer Option for rising 10th, 11th and 12th grade students ONLY: Students have the option of completing their Financial Literacy graduation requirement through an on-line course experience, at the expense of the student/parent. All applications are approved by the Supervisor of Guidance in May and must be completed within the summer school timeline.

BUSINESS COURSES

INTEGRATED COMPUTER APPLICATIONS **H82000**
Grades: 9-12 2.5 Credits Sem
Prerequisite: None

This course teaches students a variety of integrated computer applications, including the creation of professional documents, publications, spreadsheets, databases, and presentations. Students receive instruction in the use of various Internet resources and programs to gather information needed for progress. An emphasis will be placed on creating business documents that may include reports, charts and slide shows.

ACCOUNTING I **H84001**
Grades: 9-12 5.0 Credits Year
Prerequisite: None

This course provides an introduction to accounting principles. It emphasizes the business aspects of accounting and prepares the student to account for the business activities of a company. The use of actual business forms and an introduction to computer accounting simulate business conditions. Students will learn how to use Quick Books Pro. This class is recommended for college-bound students interested in business administration, finance, and/or accounting.

ACCOUNTING II **H84002**
Grades: 11-12 5.0 Credits Year
Prerequisite: Accounting I

This course continues the development of the business aspects of accounting and prepares the

student to keep records in a proprietorship, partnership, or corporate enterprise. Each student completes a practice set of actual business forms that replicate office situations. Much of the course will involve using a computerized accounting program. This class is particularly useful to students who plan to work in accounting or pursue accounting courses in college.

MULTIMEDIA PRESENTATIONS **H12011**
Grades: 9-12 2.5 Credits Sem
Prerequisite: None

This course will focus on enhancing students' abilities to make formal presentations to small and large groups. Students will utilize presentation software to design multimedia slide shows and other computer applications to create supporting materials. Communication skills will be developed in order to help with software delivery. An emphasis will be placed on preparing and delivering business presentations using technological supports.

AP MACROECONOMICS **H82010**
Grades: 10-12 2.5 credits Sem
Prerequisites: Algebra II, B or better average in an accelerated math class or A in an on-level math class, B or better average in English.

This one semester college-level course will cover topics in macroeconomic theory and provides a foundation for a course in AP Microeconomics. The course content is based on suggestions made by the College Board. The course will prepare students to take the AP Macroeconomics Exam given in May. Throughout the course, students will be applying the theory they are learning to current economic conditions. Topics covered will include Gross Domestic Product, inflation, unemployment, monetary and fiscal policy and trade. Students will learn how to analyze various economic indicators. **Princeton High School expects that all students enrolled in an AP course will take the AP exam. This course meets the Financial Literacy graduation requirement.**

AP MICROECONOMICS **H82009**
Grades: 10-12 2.5 Credits Sem
Prerequisite: AP Macroeconomics

This one semester college-level course will cover topics in microeconomics and should be taken after AP Macroeconomics. This course will prepare students to take the AP Microeconomics

Exam given in May. The course will cover theories of consumer and business behavior. Students will analyze the different costs, price, and output decisions faced by firms. Four different market models will be studied: pure competition, monopolistic competition, oligopoly, and pure monopoly. In the spring, the class will go on a trip to the NY Federal Reserve Bank and the NY Mercantile Exchange. **Princeton High School expects that all students enrolled in an AP course will take the AP exam. This course meets the Financial Literacy graduation requirement.**

BUSINESS ETHICS **H82004**
Grades: 9-12 2.5 Credits Sem
Prerequisite: None

The issue of ethics is woven into the everyday activities and responsibilities of business. This course will study the nature of moral responsibilities of corporations, the rights and responsibilities of employees, affirmative action, discrimination, sexual harassment, the environment, and marketing. The topics students discuss include moral issues of business, protecting the environment, affirmative action, safety, and sexual harassment. Actual case studies will be highlighted for discussion.

PERSONAL FINANCE **H82006**
Grades: 9-12 2.5 Credits Sem
Prerequisite: None

This course addresses the interests of those students who want to learn how to manage their own finances. Among the topics covered will be saving and investing, spending within a budget, money and banking, and credit issues. The course will include a basic understanding of business and economics. Students will have the opportunity to participate in a personal finance simulation. **It is recommended that this be the first business course students take. This course meets the Financial Literacy graduation requirement.**

ECONOMICS **H82008**
Grades: 9-12 2.5 Credits Sem
Prerequisite: None

This one semester basic course in Economics will introduce students to supply and demand and give an overview of other important macroeconomic issues such as Gross Domestic Product, inflation, unemployment and taxes.

Current economic events will be discussed as they apply to the topics being covered. This course is recommended to students who want to gain a general understanding of the U.S. economy. This is also a good first course for students who want to continue with further business studies. **This course meets the Financial Literacy graduation requirement.**

ENTREPRENEURSHIP **H82007**
Grades: 9-12 2.5 Credits Sem
Prerequisites: None

This course will introduce students to the skills required in owning and running a business. The focus will be on the small business environment, the home of most entrepreneurs. Students will learn the concepts involved in owning a business including starting a business, business plans, legal forms, selling, advertising, and tax issues. Business confidence will be developed through hands-on experience including simulations, case studies, and practical experience. The operation of a business within the high school, such as a school store, may be included as an outstanding learning experience. Students may also gain experience through operating concession stands at athletic events, plays, and concerts sponsored by the school. **This course meets the Financial Literacy graduation requirement.**

TECHNOLOGICAL & INDUSTRIAL EDUCATION

ENGINEERING DRAWING **H84011**
Grades: 9-12 5.0 Credits Year
Prerequisite: None

Engineering Drawing is a Computer Aided Design and Drawing (CADD) course designed to provide beginning students with instruction in computer graphic skills and design fundamentals. Students will learn the use of Autodesk Inventor for two-dimensional drawing and three-dimensional modeling. Students will explore the wide range of CAD technologies and applications in drawing objects in both orthographic and isometric forms. This course is highly recommended for students aspiring to study engineering, architecture, or other technical fields.

ARCHITECTURE **H84012**
Grades: 10-12 5.0 Credits Year
Prerequisite: Engineering Drawing or Computer Graphics

This course introduces students to design and drafting problems involving residential buildings. The course includes the study of the basic fundamentals of design, and skills related to the production of architectural designs. Students will study the design of interior and exterior elements of structures in both two-dimensional and three-dimensional representations. A set of floor plans will be created to conclude the year. The main program used in class is Autodesk Revit Architecture.

ADVANCED ARCHITECTURE H84013
Grades: 11-12 5.0 Credits Year
Prerequisite: Architecture

This course begins with a compilation of plans for a dream house, which includes: sketches/drawings, dimensioned floor plans, elevations, sections, roof plans. The students will also complete three-dimensional projects such as a movie theater, library or restaurant. The year will conclude with a partner project involving the design and construction of a foam core single story house. Autodesk AutoCAD Architecture and Autodesk Revit Architecture will be used as the main programs in this class.

COMPUTER GRAPHICS H84014
Grades: 9-12 5.0 Credits Year
Prerequisite: None

This course will introduce students to illustration and 3D modeling using the computer. AutoCAD 2009 will be used as well as Adobe Illustrator CS2 to produce and edit graphic images. The first semester of the course, students will be introduced to Adobe Illustrator. The Second semester, students will be using AutoCAD. The course designed to provide beginning students with instruction in computer graphic skills and design fundamentals. Students will learn the use of AutoCAD and Illustrator for two-dimensional drawing and three-dimensional modeling. Using practical problems students will be required to plan, design, and produce computer illustrations.

INTRODUCTION TO COMPUTER NETWORKING H82015
Grades: 9-10 2.5 Credits Sem
Prerequisite: None

This course is designed for students who think they may be interested in computer networking. Students who have taken or are currently enrolled in Cisco Academy I or II may not take

this course. This course introduces students to computer networking. Students will study networking topologies, study the OSI and TCP/IP reference models of computer networking, learn the basics of using a cable tester, learn to create cables, and be introduced to various networking equipment – switches, routers, hubs – and will have some "hands-on experience" building a two router lab. This course is designed as a prerequisite for students thinking of enrolling in Cisco Networking Academy. It is highly recommend that students take this course before enrolling in the Cisco Networking Academy Program. (Students will have the opportunity during the course to enroll in the Cisco Networking Academy the following semester.)

CISCO NETWORKING ACADEMY I H84016
Grades: 9-12 5.0 Credits Year
Prerequisite: None

The Cisco Networking Academy I course will teach students to design, build, and maintain computer networks. The Networking Academy is an e-learning model that delivers the curriculum via the Internet. The seven layers of the OSI model will be covered with an emphasis on computer networking fundamentals, switching, and routing technologies. A 5 router lab network will be built and maintained as part of the class. Students will also learn how to build and test CAT-5 cables and explore the inner-workings of a computer. The course features on-line testing, student performance tracking, hands-on labs, simulation labs using packet tracer and web-based (e-sims) e-labs.

CISCO NETWORKING ACADEMY II H84017
Grades: 10-12 5.0 Credits Year
Prerequisite: Cisco I

The Cisco Networking Academy II course will build on the foundation developed in the Cisco Networking I course. Topics covered include Local Area Network (LANS) design, Switching, Virtual LANS, Access Control Lists (ACLS), Wide Area Networks (WANS), Frame Relay, and ISDN. Students will also gain critical hands-on experience by working with class members to network a fictional school district through the Threaded Case Study or Washington Project. The Networking Academy is an e-learning model that delivers the curriculum via the Internet. The course features on-line testing, student performance tracking, hands-on labs, and web-based e-labs. Upon completion of this class,

students will have the knowledge to take the Cisco Certified Networking Associate (CCNA) exam, and industry standard networking professional exam. Students who complete both Cisco I & II with a 70% or better final exam scores can receive vouchers to reduce the cost of the CCNA exam.

CISCO III **H82018**
Grades: 11-12 2.5 credits Sem
Prerequisite: Cisco I and Cisco II

Cisco III is for students who have successfully completed Cisco Academy I and II. The purpose of the course is to prepare students for CCNA exam (Cisco Certified Network Exam). Students will have hands-on experience with networking equipment, review networking concepts, use e-simulation labs, and review material that will be covered for CCNA exam. Students will have access to Cisco Library. Students will learn working knowledge of networking equipment - routers, switches, hubs, etc. During the course of the semester, students will have opportunity to be enrolled to take the CCNA exam prior to end of the semester.

WEB PAGE DESIGN **H82019**
Grades: 10-12 2.5 Credits Sem
Prerequisite: None

This course will teach students how to create web pages and manage them. Students will learn how to create web pages using Microsoft FrontPage 2002. Students will be exposed to common web page formats and functions. This class will encourage curiosity and independent exploration of the World Wide Web's resources. Students will develop an exercise-oriented approach that allows them to learn by example.

SCIENCE

Three years (15 credits) of science courses are required for graduation. However, we strongly recommend including science courses in the program every year. The science curriculum consists of courses designed to assist the student in acquiring a scientific literacy and to prepare them for future education. A minimum of 3 lab sciences is recommended for the college bound student. Students who entered high school in the 2008-2009 year or later are required to complete one year of biology. Students who enter the 9th grade in 2010-2011

or later must take the NJ Biology Competency Test in May.

The Science Department opens opportunities for students to advance a level. Students should review the criteria for advancement to an AP Science course. There is an approval process that must be discussed with student's counselor and approved by department supervisor. Please see the Science website for information and application.

Please note: ALL Science courses, unless noted, include 2 labs per cycle.

BIOLOGY I **H34011**
Grades: 9-12 6.4 Credits Year
Prerequisites: In 8th grade, Pre-Algebra C+, Algebra I C+ or better (or concurrent enrollment in Algebra I or Geometry)

This biology course is designed as a college preparatory course. Topics of study include biochemistry, energy use and flow, cell structure and function, genetics, evolution and taxonomy, life processes, and ecological principles. Careful attention is given to detail and technique during laboratories with the intent of developing sound observations, organization, and analyses. The lab skills emphasized include lab safety, proper use of scientific equipment, microscopy, biological assays, and basic statistical analysis. **Students will take the NJ Biology Competency Test in May.**

BIOLOGY I ACCELERATED **H34012**
Grades: 9-12 6.4 Credits Year
Prerequisites: A- or better in 8th grade science and Algebra I A- or better and concurrent enrollment in Geometry/Geometry Accelerated. Teacher recommendation and an assessment will determine placement.. A separate placement test will be given for students coming from another district.

This rigorous course is designed to challenge the most able and interested science students. Students should use abstract reasoning, exhibit organizational skills and the ability to produce high quality work on time and with minimal additional support. An ability to think scientifically and to perform scientific inquiry with appropriate apparatus, and the motivation to complete independent work are considered minimal entry requirements. Students are expected to read scientific literature and become

familiar with scientific principles. Laboratory experiences, presentations, and individual and group research projects are central learning activities. **Students will take the NJ Biology Competency Test in May. Students who enter this course are expected to remain and will be deterred or restricted to switch into Biology.**

BIOLOGY II **H34015**

Grades: 11-12 6.4 Credits Year
Prerequisites: Introduction to Biology and Chemistry I or Chemistry in Context

Biology II provides a path for students who are upperclassmen who have not taken Biology I and for students who are required to take the equivalent of a first-year biology in order to graduate. The course will build upon a firm foundation in the main concepts of Introduction to Biology and attend to the key areas of organization and development, matter and energy transformations, heredity and reproduction, and evolution and diversity. **Students will take the NJ Biology Competency Test in May. Students who enter this course are expected to remain and will be deterred or restricted to switch into Biology.**

AP BIOLOGY **H34013**

Grades: 11-12 6.4 Credits Year
Prerequisites: Algebra II B or better or concurrent enrollment, Biology I ACC C+, Biology I B or better, and Chemistry I ACC, Chemistry B or department supervisor's approval.

The course is designed to explore and integrate facts, models, methods, concepts, themes, and research in the field of biology. The course follows the AP syllabus, and a student enrolling should plan on taking the AP exam in May. To meet timelines, one must be willing to work at a steady and intense pace during the year. Beginning in November, each student will develop a research project due in April; this is the final exam for the course. A main approach in the class is to integrate biological themes, make connections, and examine quantitative analysis through inquiry of those biological topics studied. The major themes presented in the course are: evolution, structure and function, emergent properties, unity and diversity, hierarchy of organization, science as a process, the cell, energy transfer, continuity and change (genetics), regulation, interdependence

in nature and science, technology, and society. Two double laboratory periods occur in a cycle; the AP recommended labs will be covered. Laboratory exercises emphasize the scientific method of inquiry with particular attention to the analysis of data. **Princeton High School expects that all students enrolled in an AP course will take the AP exam.**

BIOETHICS: BIOLOGY, TECHNOLOGY, AND SOCIETY **H34014**

Grade: 12 ONLY 6.4 Credits Year
Prerequisite: Biology I or Biology I Accelerated with an average of B or better

This course is designed for mature students who have a continuing interest in the life sciences, especially those recent advances that have had an impact on society. Students will be expected to complete extensive reading assignments, participate in daily class discussions and activities, complete position papers, and give presentations, and engage in various debate formats. Goals of the course include scientific literacy, consideration of issues following a systematic approach, gaining an understanding and appreciation of the complex nature of different viewpoints, and examining the extent to which biology and ethics interact with other disciplines (legal, social, economic, political, religious, cultural, educational). Topics are taught from an interdisciplinary approach and include the role of science in society, the elements of critical thinking, models of ethical analysis, animal experimentation, reproductive technology, maternal/fetal conflicts, gene therapy, and the AIDS epidemic. Videos, guest speakers, and literature will augment teacher and student presentations.

CHEMISTRY IN CONTEXT: APPLYING CHEMISTRY TO SOCIETY **H34021**

Grades: 10-12 6.4 Credits Year
Prerequisites: C or better in a previous high school lab science course

This college preparatory course is structured around community issues related to chemistry rather than around specific chemical concepts. Concepts are presented on a "need-to-know" basis. Students use and apply their chemistry learning, leading to a greater sense of motivation and a feeling of ownership of their knowledge. There are many decision-making activities, and critical thinking is emphasized. Labs are an integral part of the learning. Chemistry in the Community, a.k.a. ChemCom,

was developed by the American Chemical Society, with funding from the National Science Foundation. The units included are water, materials, petroleum, air industry, nuclear, and food. Students learn more organic and biochemistry than in traditional courses, as well as some environmental and industrial chemistry.

CHEMISTRY I**H34022**

Grades: 10-12 6.4 Credits Year
Prerequisites: B- or better in Algebra I or co-enrolled in Algebra II; C or better in a lab science

This college preparatory course is designed to give students a working knowledge of the basic concepts and principles of chemistry. Rather than memorizing facts, the course emphasizes understanding, analysis, logical thinking and problem solving. The laboratory experience is an integral part of the learning. Major topics include measurements, properties of matter, atomic structure, nuclear reactions, periodicity, chemical bonding, reactions and stoichiometry, and gas laws. Other topics may include solutions, equilibrium, and acids and bases, as time permits.

CHEMISTRY I ACCELERATED**H34023**

Grades: 10-12 6.4 Credits Year
Prerequisites: Minimum B+ in Accelerated Biology or A in Biology. Minimum A in Geometry or B+ in Geometry Accelerated and co-enrollment in Algebra II or completion of Algebra II with B+ or better. It is strongly recommended that for this class students are enrolled in Pre-Calculus or a higher level math class.

This college-preparatory course is a broader and deeper introduction to chemistry than Chemistry I. It covers Chemistry I topics in greater depth, with more mathematics and at a faster pace. Additional topics, not included in Chemistry I are solutions, phase changes, equilibrium, acids and bases, oxidation/reduction, and organic chemistry. This course emphasizes abstract reasoning and mathematics and will assist students planning to take the SAT II test in chemistry.

AP CHEMISTRY**H34024**

Grades: 11-12 6.4 Credits Year
Prerequisites: B in Chemistry I ACC or A in Chemistry I, Pre Calculus (may be taken concurrently), B or better in Algebra II.

This course is designed to meet the needs of the student who has developed a special interest in chemistry, who is considering a career in science or a related field, and who intends to take the Advanced Placement exam in May. This course follows the AP syllabus with a rigorous pace and is equivalent to a first year college course. The course uses a college text and supplementary publications. The course focuses on the ability to express ideas with clarity and logic, to design and conduct laboratory experiments (two double labs per cycle), to arrive at conclusions with mathematical vigor, and to manipulate equations and solve problems. Topics include: Atomic Structure, Analytical and Descriptive Chemistry, Gas Laws, Thermodynamics, Kinetics, Bonding, and Equilibrium including K_{eq} , K_{sp} , K_a , K_b , K_p Oxidation and Reduction. **Princeton High School expects that all students enrolled in an AP course will take the AP exam.**

PHYSICS I**H34030**

Grades: 10-12 6.4 Credits Year
Prerequisites: Minimal B- in Algebra I, B- in Geometry, and co-enrolled in Algebra II,

This college preparatory course is specifically designed for students needing a less mathematically rigorous approach to physics. Topics of study include fundamentals of motion, dynamics, momentum, energy, heat, vibrations and waves, sound and music, light, electricity, magnetism, atoms, and nuclei. While a conceptual approach to the subject is stressed, critical thinking skills are practiced. **Students should take AP Physics 1 if they have taken Pre-Calculus.**

AP PHYSICS 1**H34033**

Grades: 11-12 6.4 Credits Year
Prerequisite: B or better in Algebra II and co-enrolled in Pre-Calculus or department supervisor's approval

This course is the equivalent of a first-semester college course in algebra-based physics, but is designed to be taught over a full academic year to enable AP students to develop a deep understanding of the content and to focus on applying their knowledge through inquiry labs. The full year also allows time for inclusion of physics content specified by state standards. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It also introduces electric circuits. **Princeton High School**

Princeton High School expects that all students enrolled in an AP course will take the AP exam.

AP PHYSICS C

H34034

Grades: 11-12 6.4 Credits Year

Prerequisite: AP Physics 1 (B or better), or an equivalent course to advance and a minimum of B+ of the AP Physics 1 final exam and Calculus AB, BC (Calculus may be taken concurrently), or department supervisor's approval.

This course is the equivalent of a first-year university-level course in classical mechanics, electricity, and magnetism. It is recommended for those students considering majoring in science or engineering. Supplementary topics are taken from modern physics, thermodynamics, optics, and wave mechanics. Some laboratory activities may be carried out. This course is recommended for students who plan to take the Advanced Placement Examination in physics in May. **Princeton High School expects that all students enrolled in an AP course will take the AP exam.**

ACCELERATED ASTRONOMY

H32040

Grades: 10-12 3.2 credits Sem

Prerequisite: An A- or better in Algebra I or a B+ in Algebra I Accelerated, and B+ in the most recent science class.

A semester course exploring cosmology, solar semester, and local space science, this course would employ some Algebra and examine current understanding of the deep sky and local phenomena.

ACCELERATED OCEANOGRAPHY & ATMOSPHERIC SCIENCE

H32041

Grades 10-12 3.2 Credits Sem

Prerequisite: An A- or better in Algebra I or a B+ in Algebra I Accelerated, and B+ in the most recent science class.

A semester course exploring the coupling of ocean and atmospheres, ocean physics, geology, chemistry and biology, and would involve and employ some algebra and examine current understanding of climate change and ocean food webs.

ANATOMY AND PHYSIOLOGY

H34042

Grade: 12 ONLY 6.4 Credits Year

Prerequisite: Biology I or Biology I ACC with a C+ or better average

This course is designed for senior students who

have a continuing interest in the biological sciences. It will provide the student with information about the human body and its processes; the concept of structure and function provides the foundation of the course. The single laboratory period allows for student examination of the cat. This dissection, accomplished in depth, will serve as a parallel and comparison to the human condition. Students must demonstrate a mature attitude and demeanor and must be willing to participate in all aspects of the course, including the dissection. Filmstrips, movies, and videotapes will augment teacher presentation, and evaluations will consist of quizzes, tests, and laboratory practicals at appropriate intervals. As the course requires an extensive esoteric vocabulary, students should expect to learn terminology as approached in learning a foreign language.

GENETICS

H34043

Grades: 11-12 6.4 Credits Year

Prerequisites: First year Biology and Chemistry, with a C+ average or better in both.

The first semester covers many of the Mendelian patterns and the many more non-Mendelian patterns of inheritance found to exist in humans and in other species. Key topics covered in the first semester are mitosis, meiosis, cell cycle, Mendel's laws of heredity, gene interactions, linkage, sex determination and modification, linkage studies, and nature vs. nurture studies. Individual and family patterns are emphasized. Students will use algebra, probability, and statistics in this segment. The second semester will focus on molecular genetics, including examination of DNA as the genetic material, gene expression by protein synthesis, gene control, mutations, and recombinant DNA technology. The last portion of the course will focus on population genetics, and students will correlate what has been studied about genes in individuals to genes in populations as they evolve.

SUSTAINABLE HORTICULTURE

H34044

Grades: 10-12 6.4 Credits Year

Prerequisites: C+ or better in Biology I and C+ or better in first-year Chemistry

This course is designed for those students who have an interest in Horticulture, its effect on the environment, personal health, and community sustainability. The class integrates the practical application of horticulture as a means towards understanding how individual choices can

influence or compromise the creation of a sustainable, healthy community. The program is a college-preparatory elective and students interested in starting their own "niche" business would also benefit. Some topics to be covered are: the changing face of Horticulture in the metropolitan area, native vs. exotic species in the landscape, biodynamic agricultural systems, soil as a thriving community, conventional vs. ecological landscape management, and creating livable communities through horticulture. Students are expected to collaborate and participate in school-based projects that reinforce learned-themes. Students will be actively engaged with green communities of the school. A final project is also associated with this course.

AP ENVIRONMENTAL SCIENCE H34046

Grades: 11-12 6.4 Credits Year
Prerequisite: Biology I and first year Chemistry with a B- average or better in both, minimum of Algebra II with B average or better or supervisor approval.

AP Environmental Science is an introductory college level course that will provide the highly motivated student with the scientific principles and concepts necessary to understand relationships of the natural world. Students will be able to identify and analyze environmental problems, both natural and human-made, as well as examine various alternative solutions for resolving or preventing the problems. The following themes will be covered: energy conversions, earth as a single interactive system, human alterations of natural systems, the cultural and social context of environmental problems, and how human survival is dependent on the achievement of sustainable living systems. Special emphasis will be placed on how these five themes relate to current, local, regional, and world events. **Princeton High School expects that all students enrolled in an AP course will take the AP exam.**

PHYSICAL ANTHROPOLOGY H32047

Grades: 11-12 3.2 Credit Sem
Prerequisite: C+ or better in two previous science classes.

This is a natural science course designed to expose students to scientific ways of answering questions about human origins and human biology. We want to know what we can learn about ourselves by approaching the study of human traits the way a biologist would. Our

goal is to demystify ourselves by viewing humans in a broad biological framework. This course and the associated lectures, readings, and labs address the following questions: What processes shape humans (and other creatures) over time? What are genes; why do we have the ones we do; and how do they interact with our experiences in shaping us? What can we learn about ourselves from studies of our close relatives among the non-human primates? How much is known about our ancestry and what does that tell us about human nature?

FORENSICS

H32048

Grades: 11-12 3.2 Credits Sem
Prerequisite: B or better in 1 year Biology or higher, B or better in 1 year of Chemistry or higher

A multidisciplinary science course incorporating concepts from biology, chemistry, physics, genetics, math and statistics. The focus of this course will be using analytical skills from each of the aforementioned disciplines to problem solve a variety of crimes. The inquiry nature of this course will also integrate aspects from other areas such as psychology, sociology, communications and law. It is designed to emphasize critical thinking, scientific reasoning, and problem solving skills with realistic applications. Students will use mock crime scenes to observe, collect, analyze, and evaluate different pieces of evidence to determine their significance in solving a mystery or crime. It is meant to be activity –driven and augmented by instruction in the various scientific principles applicable to each crime's solution. For each piece of evidence used, students will be expected to apply the scientific method in order to draw conclusions about what happened at the crime scene and who committed the crime. Students will also be asked to support and defend the conclusions drawn.

SCIENCE & TECHNOLOGY IN A 21ST CENTURY SOCIETY H32049

SEMESTER A OR B

Grades: 10-12 3.2 Credits Sem
Prerequisite: Completion of a previous Science course.

Students will select Semester A or B. Students will use technological applications as the vehicle for guided inquiry and independent research. In this environment, imagination, innovation, artistic ability and leadership skills are given equal value as computing, reading and writing in

evaluation. Seven cross-cutting concepts identified in the Next Generation Science Standards form the basis for instruction in STEM21: patterns, cause and effect, scale, proportion and quantity, energy and matter, systems and system models, structure and function and stability and change. As students explore core disciplinary content ideas, each of these cross-cutting concepts will be used to anchor discussion and frame presentations. Semesters A & B address the stated goals through four major topics. Semester A includes: Defining Science and Technology in the 21st Century, Scientific Design, Matter-Structure, Properties and Change, and Forces and Motion. Semester B includes Secondary Data Analysis, Energy, Energy Effect on Humans, and Research and Advocacy.

ORGANIC CHEMISTRY H32050

Grades: 11-12 3.2 Credits Sem

Prerequisite: Students who passed the AP Chemistry Exam grade with a 4 or 5, or instructor/supervisor approval.

This course will provide an overview of structures of functional groups (reactive portions of a molecule) and the reaction mechanisms (pathways of chemical reactions) that these functional groups undergo. The main topics covered are: molecular structures and bonding, introduction to stereochemistry, formalisms used to describe reactions and mechanisms, thermodynamics, analytical methods used to elucidate molecular structures and several types of reactions. This is a college-level course that will be weighted.

SOCIAL STUDIES

The mission of the Social Studies Department is to help students learn to make informed and reasoned decisions as citizens of a culturally diverse, democratic society in an interdependent world. History forms the core of the program offered by the department, but the central discipline is expanded and supported by insights and strategies drawn from geography, political science, economics, sociology and anthropology. Instruction includes chronology, cause-effect reasoning, exercises in geographical literacy, information gathering, processing skills, strategies for effective communication, and ethical decision making. To meet New Jersey and district graduation requirements, students must successfully complete two years of United

States History and the World History/Cultures course. Electives may be chosen in the senior year. Students may choose electives in their junior year in addition to the required World History & Cultures course. Students, particularly those interested in pursuing studies in the humanities, are strongly encouraged to elect an additional year of social studies. Courses that permit in-depth investigation of the traditions of our own and various other world cultures, as well as those that provide an introduction to human behavior, add a valuable dimension to any student's education.

REQUIRED COURSES AND SEQUENCE

US History I--9th grade

US History II or AP US History--10th grade

World History & Cultures or AP World History--11th grade

UNITED STATES HISTORY I H44010

Grade: 9 5.0 Credits Year

Prerequisite: None

This required course traces the history of the United States from the arrival of the first Americans through the end of the 19th Century. It introduces the themes of balance between unity and diversity, the shaping of democracy, the search for opportunity, and the influence of geographical factors. It also examines European, Native American, and African interaction in Colonial America, the Revolution, the New Nation, the Constitution, the War of 1812, the development of democracy, the West, slavery, the Civil War, Reconstruction, and Industrialization.

UNITED STATES HISTORY II H44020

Grade: 10 5.0 Credits Year

Prerequisite: U.S. History I

This required course continues coverage of the themes of U.S. History into the 21st Century, including units on U. S. Imperialism, the First World War, the 1920's, the Great Depression, the New Deal, World War II, the Cold War, Vietnam, the Civil Rights Movement, and American political and social events up to the present time.

AP UNITED STATES HISTORY H44021

Grades: 10-12 5.0 Credits Year

Prerequisites: B+ in social studies courses

This demanding course is divided into nine units

of study of American history from the Colonial period to the present. Students are expected to complete regular reading assignments in a college-level text, a book of primary source documents, and a collection of American biographical essays. Homework will average one hour per night. Students are evaluated by means of quizzes, unit tests, essays modeled on the Advanced Placement exam format, and projects. **Princeton High School expects that all students enrolled in an AP course will take the AP exam.**

AP GOVERNMENT AND POLITICS H44031

Grades: 11-12 5.0 Credits Year
Prerequisites: B+ in social studies courses

This demanding course consists of an in depth study of the workings of the American political system followed by a comparative analysis with the political systems of five other nations. Two college-level texts are used, and students should expect to complete regular, focused reading assignments. Additionally, the course will require long-term assignments and discussion of relevant contemporary events. Evaluation will be based on projects, marking period tests, and essays modeled on the Advanced Placement examination format. **This course does not satisfy the United States History II requirement. Princeton High School expects that all students enrolled in an AP course will take the AP exam.**

WORLD HISTORY & CULTURES H44040

Grade: 11 5.0 Credits Year
Prerequisites: U.S. History I and U.S. History II or AP U.S. History.

This required course asks students to examine major civilizations, with the emphasis on the era from 1450 A.D. to the present. The course devotes particular attention to key political, economic, and cultural traditions and ideas, including the interactions between different civilizations.

AP WORLD HISTORY & CULTURES H44041

Grade: 11 5.0 Credits Year
Prerequisites: B+ in social studies courses

Students in the Advanced Placement World History course will study the evolution of human societies as they interact and change over time. Student understanding will be advanced through a combination of selective factual knowledge and appropriate analytical skills. The course will

focus primarily on the last 1,000 years of the global experience, but it will include a foundations section that identifies more long-standing influences on world history. Themes of the course will include the impact of interaction among major societies, the relationship between change and continuity, the effects of technology and demography, comparisons of social and political structures and gender structures, and the effects of cultural and intellectual developments. The course will be global in its focus, with no particular emphasis on one part of the world over another. The course extends to the present. **This course fulfills the state requirement for one year of World History. Princeton High School expects that all students enrolled in an AP course will take the AP exam.**

AP EUROPEAN HISTORY H44050

Grades: 11-12 5.0 Credits Year
Prerequisite: B+ in social studies courses

This demanding course consists of a broad study of European History beginning with the Renaissance and extending to the present. College level texts are used, and the student should expect to complete regular, focused reading assignments. Additionally, the course requires the writing of expository essays and research reports. Evaluation is based on tests, essays modeled on the Advanced Placement examination format, and projects/presentations. **This course does not satisfy the World History/Cultures requirement. Princeton High School expects that all students enrolled in an AP course will take the AP exam.**

AFRICA H42051

Grades: 11-12 2.5 Credits Sem
Prerequisite: None

In this course, students study the vast, diverse continent of Africa - its regions, nations, and people. Students address issues related to political change, economic development, cultural diversity and national unity, and international relations. Particular attention is paid to the influence of history and geography.

LATIN AMERICA H42052

Grades: 11-12 2.5 Credits Sem
Prerequisite: None

This course provides for study of Latin America and the Caribbean from a variety of perspec-

tives. Special emphasis is placed on geography, literature, economics, and lifestyles. Four countries are singled out for in-depth study. Students are required to do a major term paper on the country of their choice.

MIDDLE EAST **H42053**

Grades: 11-12 2.5 Credits Sem
Prerequisite: None

The focus of this class is review of the Middle East, with specific attention to the Arab-Israeli conflict and to U.S. foreign policy. Emphasis is placed on the historic and religious backgrounds of Muslims and Jews, the role of the West, the influence of oil, and the cultural diversity of the region. **For 2014-2015, Seniors will have a P/F Option for the Final Grade for the course.**

RUSSIA **H42054**

Grades: 11-12 2.5 Credits Sem
Prerequisite: None

In this course, the causes and implications of recent changes in the lands of the former Soviet Union are investigated. By the time students complete this course, they are able to identify and explain key events and issues in the modern history of these fifteen nations and discuss reasonable scenarios for the future.

EAST ASIAN STUDIES **H52055**

Grades: 11-12 2.5 Credits Sem
Prerequisite: Proficiency in Mandarin, Japanese, or Korean or Instructor/Supervisor approval

This seminar course will offer a survey of the history, art, literature, political and economic aspects of the East Asia region comprising China, Japan, and Korea. The teacher and students will use primary sources both in the original language and translated to English to investigate the history of the region and its present day role in the world. The use of technology, from researching examples of art to finding current articles, will be integral to the course.

HUMAN BEHAVIOR **H44056**

Grades: 11-12 5.0 Credits Year
Prerequisite: None

Human Behavior, as an elective course open to juniors and seniors, is an introduction to key concepts, theories, and figures in the fields of psychology and sociology. The course is

designed as an exploration of the self and the human condition. Through case studies, conversation and debate, research, and written work students explore topics ranging from human development theories to recent research findings on the brain, to group dynamics, multiculturalism, and social stratification. Quarterly and group projects bring the opportunity to refine research skills and synthesize what has been learned.

ACCELERATED SOCIOLOGY **H44058**

Grades: 11-12 5.0 Credits Year
Prerequisites: B+ in social studies courses

Sociology focuses on the systematic understanding of social interaction, social organization, social institutions, and social change. Major themes in sociological thinking include the interplay between the individual and society, how society is both stable and changing, the causes and consequences of social inequality, and the social construction of human life. Understanding sociology helps students discover and explain social patterns and see how such patterns change over time and in different settings. By making vivid the social basis of everyday life, sociology also develops critical thinking by revealing the social structures and processes that shape diverse forms of human life.

ESL US HISTORY I/II **H44920**

Grades: 9-12 5.0 Credits Year
Prerequisite: ESL enrollment

ESL U.S. History I/II offers topics in American history and speaking activities for students who are currently enrolled in the ESL program or who have recently exited from the ESL program. (The course provides a transition program for non-native English speakers who have developed a working knowledge of the language, but have difficulty with the nuances of the language required in standard history classes.) Reading selections and written assignments prepare students to understand topics and concepts in the United States. Topics covered are those covered in U.S. History I during one year and in U.S. History II in alternating years. Credit is granted for the state graduation requirement of one year of U.S. History for each year of successful completion. **Students may enroll in this course for a maximum of two years.**

WORLD LANGUAGES

Students learn to communicate in a language other than English and understand the perspectives of its cultures. Since the program is designed to build language proficiency through a sequence of courses, we strongly encourage students to complete as many years of a language sequence as possible and to take the opportunity to study more than one language. Princeton High School offers sequential study in French, Japanese, Italian, Latin, Mandarin, and Spanish. Level I courses are open to all students in grade 9 who have had no previous experience with the language. The Supervisor of the World Language Department may approve enrollment in Level I courses for 10th and 11th grade students based on class numbers. Placement in level II and above is dependent on your grade and the recommendation of the previous year's teacher. Students who have completed one or more years of study prior to enrollment at PHS are placed by the teacher after a multi-modal evaluation is completed. Students wishing to study a language with which they have extensive experience in an immersion setting or of which they are a native or heritage speaker must be evaluated to determine appropriate placement. All students new to Princeton High School will have a placement evaluation prior to registering for a language course. The department supervisor determines final placement based on the results of the evaluation. **No student will enroll in a course other than the one for which they were recommended.** Since the level of language proficiency gained depends on the time spent in meaningful communication, teachers provide instruction in the target language. They support students in their efforts to use the language actively, and they evaluate them based on performance and production as well as paper and pencil assessments. Continuing language study at Princeton University is an option for some students. Plan ahead by checking requirements with Guidance and the department supervisor. This opportunity is available to 11th and 12th graders who meet all the criteria set by the University. This may include the necessity of taking a language course at PHS concurrently while studying at the University.

FRENCH II **H54000**
Grades: 9-12 5.0 Credits Year
Prerequisite: Recommendation of middle school

teacher or previous experience with the language.

Students entering this class will demonstrate proficiency at the novice mid level of the ACTFL proficiency guidelines. The target proficiency is novice high. This course is an immersion experience and is conducted entirely in French. It is a student-centered class, students are expected to participate and lead as much as possible. The class is divided into thematic units anchored on authentic texts and major evaluations are in the form of integrated performance assessments.

FRENCH III **H54001**
Grades: 9-12 5.0 Credits Year
Prerequisite: PHS French II` or recommendation of the middle school teacher.

Students entering this class will demonstrate proficiency at the novice mid level of the ACTFL proficiency guidelines. The target proficiency is novice high to intermediate low. This course is an immersion experience and is conducted entirely in French. It is a student-centered class, students are expected to participate and lead as much as possible. The class is divided into thematic units anchored on authentic texts and major evaluations are in the form of integrated performance assessments.

ADVANCED FRENCH III **H54002**
Grades: 9-12 5.0 credits Year
Prerequisites: Middle School French 3, and the teacher's recommendation

Students entering this class will demonstrate proficiency at the intermediate low level of the ACTFL proficiency guidelines. The target proficiency is intermediate mid. This course is an immersion experience and is conducted entirely in French. It is a student-centered class, students are expected to participate and lead as much as possible. The class is divided into thematic units anchored on authentic texts and major evaluations are in the form of integrated performance assessments.

FRENCH IV **H54003**
Grades: 10-12 5.0 Credits Year
Prerequisite: French III.

Students entering this class will demonstrate proficiency at the novice high to intermediate low level of the ACTFL proficiency guidelines. The target proficiency is intermediate low. This

course is an immersion experience and is conducted entirely in French. It is a student-centered class, students are expected to participate and lead as much as possible. The class is divided into thematic units anchored on authentic texts and major evaluations are in the form of integrated performance assessments.

ADVANCED FRENCH IV **H54004**
Grades: 9-12 5.0 Credits Year
Prerequisite: Advanced French III.

This course continues to build from the Intermediate Mid language proficiency level in the three modes, Interpretive, Interpersonal, Presentational. The course, which is based on performance based assessment, is structured on a study of thematic units and based on a reading of authentic texts. Transdisciplinary studies, critical thinking and problem solving skills are emphasized. The course is conducted entirely in French.

FRENCH V **H54005**
Grades: 11-12 5.0 Credits Year
Prerequisite: French IV.

This course continues to strengthen proficiency in the language. The target proficiency level for speaking is Intermediate Low. The course is conducted entirely in French and major evaluations are in the form of integrated performance assessments.

ADVANCED FRENCH V **H54006**
Grades: 9-12 5.0 Credits Year
Prerequisite: Advanced French IV.

Historical, cultural, and literary texts serve as subjects for interpretation and discussion. Students apply their language skills in extensive oral and written expression. The class is divided into thematic units anchored in authentic texts and major evaluations are in the form of integrated performance assessments. This course prepares students for the AP and VIA (Cinema) French courses. Students entering this class will demonstrate proficiency at the Intermediate Mid Level. This course is student-centered and conducted entirely in French.

FRENCH VI A LE CINÉMA **H54007**
FRANCOPHONE
Grades: 11-12 5.0 Credits Year
Prerequisite: French AP or French VA.

This seminar course centers on a variety of French language films that represent different genres. Students will view, discuss and critique many films, will relate them to culture and will place them in their social-historical context. Students will leave this class with a demonstrated proficiency at the Pre advanced level. The target proficiency level is Advanced Low. This course is student-centered and conducted entirely in French. The class is divided into thematic units anchored in authentic texts and major evaluations are in the form of integrated performance assessments.

Successful completion of this class fulfills 5 credits of the Visual, Performing or Practical Arts requirements.

AP FRENCH **H54009**
Grades: 10-12 5.0 Credits Year
Prerequisite: Advanced French V.

Students who take this course apply their French to the discussion of French history, culture, and contemporary life as well as to the interpretation of literature. Students enter at the Intermediate Mid level. The course is designed to prepare students for the AP French Language exam. **Princeton High School expects that all students enrolled in an AP course will take the AP exam.**

ITALIAN I **H54021**
Grades: 9-11 5.0 Credits Year
Prerequisite: None

This course develops the language skills through a series of related activities. It focuses on the fundamentals of pronunciation, vocabulary, idiomatic expression, and grammar incorporated in basic conversation and writing and fosters an awareness of the global influence of the Italian community. Culture is an integral part of the curriculum. The targeted proficiency level is Novice High. Emphasis is on communication entirely in Italian.

ITALIAN II **H54022**
Grades: 9-12 5.0 Credits Year
Prerequisite: Italian I

This course builds on previously developed concepts and continues to develop linguistic and cultural proficiency, including the nuances of grammatical constructions, pronunciation, vocabulary and idiomatic expressions. Emphasis in this immersion course is always on

communication in Italian with the targeted proficiency level of Intermediate Low.

ITALIAN III	H54023
Grades: 9-12	5.0 Credits
Prerequisite: Italian II	Year

This course provides continued enhancement of the language skills, stressing the nuances of grammatical construction, pronunciation, vocabulary, and idiomatic expression in sustained oral and written communication. Students explore the interrelation of themes, concepts, sentiments, and styles of representative authors of Italian literature and of those dealing with the Italian-American experience. The targeted proficiency level is Intermediate Mid.

ITALIAN IV	H54024
Grade: 9-12	5.0 Credits
Prerequisite: Italian III	Year

Continuing to build from the Intermediate Mid language proficiency level in the three modes, Interpretive, Interpersonal, Presentational, this course strengthens proficiency in the language skills through the reinforcement of vocabulary, idiomatic expressions, and grammatical constructions. Critical thinking skills and fluency of expression are fostered through the interpretation of themes, concepts, sentiments, and styles of authors of Italy.

AP ITALIAN	H54025
Grades: 10-12	5.0 Credits
Prerequisite: Italian III or IV and recommendation of the teacher and/or department supervisor.	Year

Students in AP Italian will increase their skill level in Italian language through directed and open conversation, selected readings from the AP syllabus and the completion of various interpretive tasks based on authentic texts and spoken passages. This course continues to build from the Intermediate Mid language proficiency level in the three modes: Interpretive, Interpersonal, and Presentational. **Princeton High School expects that students enrolled in AP courses will take the AP exam.**

JAPANESE I	H54030
Grades: 9-11	5.0 Credits
Prerequisite: None	Year

Through a series of related activities, this course develops communication skills in Japanese.

Emphasis is on oral work, but students also learn to read and write in Hiragana, Katakana, and Kanji. Japanese culture is integrated into the lessons. The targeted proficiency level is Novice Mid.

JAPANESE II	H54031
Grades: 9-12	5.0 Credits
Prerequisite: Japanese I	Year

This course is a continuation of Japanese I. Using a variety of integrated activities, students are provided with the opportunity to continue developing their skills in listening, speaking, reading, and writing in Japanese. Students are expected to read and write Hiragana and Katakana. Japanese culture is integrated into the lessons. Class is conducted in target language. Proficiency to enroll in this course is at the Novice-Mid level. The target proficiency level is Novice-High.

JAPANESE III	H54032
Grades: 9-12	5.0 Credits
Prerequisite: Japanese II	Year

This course strengthens previously mastered concepts and continues and expands the development of proficiency in the language skills. Japanese culture remains an integral part of the curriculum. Class is conducted in target language. Proficiency to enroll this course is at the Novice High level. The target proficiency level is Intermediate-Low.

JAPANESE IV	H54033
Grades: 9-12	5.0 Credits
Prerequisite: Japanese III	Year

This course strengthens proficiency in language and culture through the application of vocabulary, idiomatic expressions, and structures. Group dynamics are studied and applied as a vehicle for learning about Japanese culture. Independent reading includes short stories and essays. Independent reading and writing includes short stories and essays. Class is conducted in target language. Depending on enrollment, this course may be linked with AP Japanese. Proficiency to enroll this course is at the Intermediate-Low level. The target proficiency level is Intermediate-Mid. Depending on enrollment, this course may be linked with Japanese AP.

AP JAPANESE**H54034**

Grades: 9-12 5.0 Credits Year
Prerequisite: Japanese III or IV and recommendation of the teacher and/or department supervisor

Students in AP Japanese will increase their skill level in Japanese language through directed and open conversation, selected readings from the AP syllabus and the completion of various interpretive tasks based on authentic texts and spoken passages. This course continues to build from the Intermediate Mid language proficiency level in the three modes, Interpretive, Interpersonal, Presentational. **Princeton High School expects that students enrolled in AP courses will take the AP exam.**

LATIN I**H54040**

Grades: 9 5.0 Credits Year
Prerequisite: None

This course introduces the fundamentals of Latin vocabulary and grammar and, by association, English grammar and derivatives. Greek and Roman mythology, history, art, and culture form the basis of readings, discussions, and student projects.

LATIN II**H54041**

Grades: 9-12 5.0 Credits Year
Prerequisite: Latin I

This course continues the development of Latin vocabulary, grammar, and translation techniques. Greek and Roman mythology, history, culture, and vocabulary etymology are stressed through readings, discussions, and individual projects.

LATIN III**H54042**

Grades: 9-12 5.0 Credits Year
Prerequisite: Latin II

This course strengthens translation skills through readings of Latin literature, beginning with Plautus and continuing through the Republic. Students are introduced to the politics and history of the Republic through selections from Cicero, Caesar, Catullus, and Ovid.

LATIN IV**H54043**

Grades: 9-12 5.0 Credits Year
Prerequisite: Latin III

This course continues the reading and translation objectives of Latin III through expanded

readings in Latin literature. Students study the politics and history of the Roman Empire through readings from Horace, Virgil, Ovid, and Martial. Silver and Medieval Latin may also be read.

MANDARIN I**H54050**

Grades: 9-11 5.0 Credits Year
Prerequisite: None

In this beginning Mandarin language course, students will learn the *pinyin* transcription system for Chinese pronunciation. They will begin to recognize, read, and write Mandarin characters and use basic grammar and structure. Culture is an integral part of the curriculum. Taught exclusively in Mandarin with an emphasis on oral communication, the target proficiency level is Novice High. This course is **only** for beginners and **non-native** speakers.

MANDARIN II**H54051**

Grades: 9-12 5.0 Credits Year
Prerequisite: Mandarin I or significant previous experience with the language

Students will develop proficiency in the three modes of communication: Interpretative, Interpersonal, and Presentational. They will use combinations of words and phrases, sentences and strings of sentences to develop written and oral communication. Culture remains an integral part of the curriculum. The course is taught exclusively in Mandarin with a target proficiency level of Intermediate Low.

MANDARIN III**H54052**

Grades: 9-12 5.0 Credits Year
Prerequisite: Mandarin II

Students' use of grammatical structures and vocabulary will become more complex, expanding speaking, listening, reading, and writing skills. They will continue to increase proficiency in the three modes of communication, moving from sentences to paragraphs. Cultural appreciation is a backdrop to the general curriculum. Exclusively taught in Mandarin, the target proficiency level is Intermediate Mid.

MANDARIN IV**H54053**

Grades: 9-12 5.0 Credits Year
Prerequisite: Mandarin III

This course will reinforce and supplement students' oral and written language skills.

Students will be able to make presentations, write essays about real-life scenarios, and keep journals. They continue to learn basic idioms, and to use authentic materials. Students continue to increase proficiency in the three modes with culture an integral part of the instruction. The course is taught exclusively in Mandarin and the target proficiency level is Intermediate High.

AP MANDARIN**H54054**

Grades: 9-12 5.0 Credits Year
Prerequisite: Mandarin III or IV and/or teacher recommendation

Students will use the three modes of communication to strengthen their proficiency in reading, comprehension, listening, speaking, and writing with greater emphasis on grammar, syntax, and idioms. This course promotes an appreciation of Chinese society and culture, both historic and current day. The course is taught exclusively in Mandarin and the target proficiency level is Intermediate High.
Princeton High School expects that students enrolled in the AP course will take the AP exam.

EAST ASIAN STUDIES**H52055**

Grades: 11-12 2.5 Credits Sem
Prerequisite: Proficiency in Mandarin, Japanese, or Korean or Instructor/Supervisor approval

This seminar course will offer a survey of the history, art, literature, political and economic aspects of the East Asia region comprising China, Japan, and Korea. The teacher and students will use primary sources both in the original language and translated to English to investigate the history of the region and its present day role in the world. The use of technology, from researching examples of art to finding current articles, will be integral to the course.

SPANISH I**H54010**

Grades: 9 - 11 5.0 Credits Year
Prerequisite: None

This course is only for beginners and non native speakers. Students who have had no prior knowledge of Spanish learn to communicate effectively, both orally and in writing, and develop an understanding of the culture of Spanish-speaking people in different regions of the world. Students write short paragraphs and engage in conversation on a

regular basis. The class is student centered and entirely conducted in the target the language using thematic units. The ACTFL proficiency level at the end of the year should be Novice-Mid.

SPANISH II**H54011**

Grades: 9-12 5.0 Credits Year
Prerequisite: PHS Spanish I or recommendation of the middle school teacher

This course continues the development of proficiency in Spanish. Pronunciation, vocabulary, idiom and grammar are expanded to support oral and written communication and reading comprehension. Latin American culture is integrated in the course. Students write short paragraphs and engage in conversation on a regular basis. The class is student centered and entirely conducted in the target the language using thematic units. The targeted ACTFL proficiency level at the end of the year is Novice-High.

SPANISH III**H54012**

Grades: 9-12 5.0 Credits Year
Prerequisites: PHS Spanish II or recommendation of the middle school teacher

This course develops language proficiency in expanded, sustained oral and written communication. Contemporary authors of Spain and Latin America are introduced through journals, periodicals, and cultural and literary texts. Students write short paragraphs and engage in conversation on a regular basis. The class is student centered and entirely conducted in the target the language using thematic units. Students communicate at the Novice-High level.

ADVANCED SPANISH III**H54013**

Grades: 9-12 5.0 Credits Year
Prerequisites: Middle School Spanish 3 at the Intermediate-Low level

This course continues the development of proficiency reached in middle school Spanish classes. Students are expected to apply their language skills to sustained oral and written communication about past, present, and future events. Contributions of Hispanic and Latino communities are integrated into the lessons. The class is student centered and entirely conducted in Spanish using thematic units. The targeted proficiency level is Intermediate-Mid and students enter at the Intermediate-Low level.

SPANISH IV**H54014**Grades: 10-12 5.0 Credits Year
Prerequisites: Spanish III

Students work to increase fluency and comprehension of the language. They interpret the practices, products, and perspectives of Spanish-speaking cultures. Vocabulary, use of idioms, and grammatical constructions are expanded and reinforced. Students who have successfully completed Spanish III A may **not** register for this class. The class is student centered and entirely conducted in the target the language using thematic units. Students communicate in the Novice-High to Intermediate-Low level.

ADVANCED SPANISH IV**H54015**Grades: 9-12 5.0 Credits Year
Prerequisite: Advanced Spanish III with a B or better

Students continue to apply the nuances of vocabulary, idiomatic expression, and grammatical constructions in expanded, sustained oral and written communication. The class is student centered and entirely conducted in the target the language using thematic units focusing on Perú, history, geography and eco-regions with performance based evaluations. The targeted proficiency level is Intermediate-High and students enter at the Intermediate-Mid level.

SPANISH V**H54016**Grades: 11-12 5.0 Credits Year
Prerequisite: Spanish IV

This is a continuation of Spanish IV. Students who have successfully completed Spanish IV A may **NOT** register for this class. Students write short paragraphs and engage in conversation on a regular basis. The class is student centered and entirely conducted in the target the language using thematic units. Students continue to increase proficiency and to reach the Intermediate-Low level.

SPANISH VI**H54018**Grade: 12 5.0 Credits Year
Prerequisite: Spanish V

Students continue to apply vocabulary, idiomatic expression, and grammatical constructions in expanded, oral and written communication. Contemporary authors of Spain and Latin America are introduced through cultural and literary texts. Students write short paragraphs

and engage in conversation on a regular basis. The class is student centered and entirely conducted in the target the language using thematic units. Students communicate in the Intermediate-Low level.

ADVANCED SPANISH V**H54017**Grades: 9-12 5.0 Credits Year
Prerequisites: Advanced Spanish IV with a B or better

Cultural and literary texts serve as subjects for interpretation and discussion. Students will apply their language skills in extensive oral and written expression. This course will prepare students for the AP Spanish course, the cinema course and, in some cases for the AP exam. The class is student centered and entirely conducted in the target the language using thematic units. Students continue to increase communication at the Intermediate-High level.

AP SPANISH**H54020**Grades: 9-12 5.0 Credits Year
Prerequisite: Advanced Spanish V with a B or better or Advanced Spanish IV and recommendation of the IVA and AP teachers

Students apply their Spanish to the discussion of Spanish history, culture, and contemporary life as well as to the interpretation of literature. Students prepare compositions as well as oral presentations. The course is designed to prepare students for the AP Spanish Language exam. **Princeton High School expects that all students enrolled in an AP course will take the AP exam.** The class is student centered and entirely conducted in the target the language. The targeted proficiency level is Pre-Advanced and students enter at the Intermediate-High level.

SPANISH VI A - EL CINE**H54019****HISPANOHABLANTE**
Grades: 11-12 5.0 Credits Year
Prerequisite: Spanish AP or Spanish VA with a B or better

This seminar course centers on a variety of Spanish language films that represent different genres. Students will view, discuss and critique many films, will relate them to culture and will place them in their social-historical context of Latin America. Additionally, they will learn about the filmmakers and cinematographic trends. The class is student centered and entirely conducted in the target the language using thematic units.

The targeted proficiency level is Pre-Advanced and students enter at the Intermediate-High level. Students at this level can opt to take the AP Spanish exam with previous teacher recommendation. **Successful completion of this class fulfills 5 credits of the Visual, Performing or Practical Arts requirements.**

TRANSFORMATIVE EDUCATION

Have you ever thought of becoming an agent of change by finding solutions to problems facing humanity? Poor sanitation, a lack of clean water, food shortages and hunger, shifts in biodiversity, inadequate energy supplies, persistent endemic health issues, and inaccessible or deficient education are only some of the many issues facing humanity today. Why should you think it is your responsibility to solve these problems? This is your chance to become a global citizen! Have you ever thought of becoming an agent of change by finding solutions to problems facing humanity? Become part of an interdisciplinary team of students at PHS that will explore global issues facing impoverished communities and improve upon your expertise. Use your imagination and creativity, as well as your critical and problem solving skills to tackle issues and to find and implement real solutions to these real-world dilemmas.

Students interested in this pilot, interdisciplinary course will indicate their interest with their school counselor during the course selection process. This program is open to grades 11 & 12.